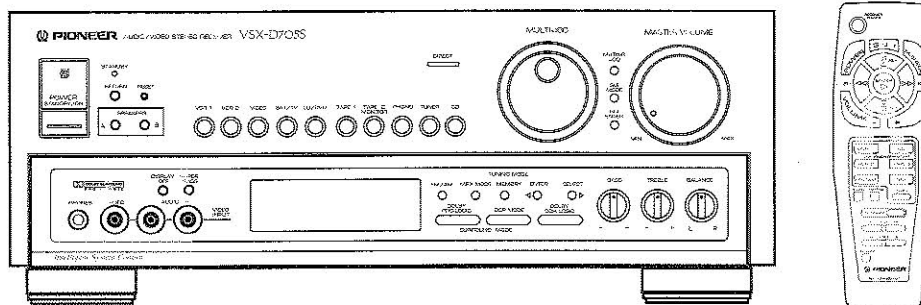


# Operating Instructions

AUDIO/VIDEO STEREO RECEIVER

# VSX-D705S

**ISC** Intelligent System Control



Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

## IMPORTANT NOTICE

### [For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

### [For Canadian model]

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER STANDBY POSITION.

|                          |          |
|--------------------------|----------|
| U.S. and Canadian models | NTSC     |
| Multi-voltage model      | PAL/NTSC |

## DEMO MODE

- The demonstration mode is activated by turning on the power switch while holding down the RETURN button (from power standby condition). The demonstration will appear on the display.
- Press any button to cancel the demonstration. Activating the demonstration mode causes memory contents to return to their original default condition, except the tuner, CD TITLE.

**WARNING :** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## RETURN function

This function returns the unit to its initial settings with the tuner ready to receive a broadcast. This is helpful during troubleshooting or when no sound is output. For details, refer to page 15.

## RESET function

Set the MASTER VOLUME to minimum before pressing the RESET button.

Use this function when normal operation is not possible due to external influences such as static electricity or lightning, or when operations are not functioning even when the operation switches are pressed. Press the RESET button to return to normal operating conditions.

## IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**CAUTION:**  
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

## SAFETY INSTRUCTIONS

**READ INSTRUCTIONS** — All the safety and operating instructions should be read before the appliance is operated.

**RETAIN INSTRUCTIONS** — The safety and operating instructions should be retained for future reference.

**HEED WARNING** — All warnings on the appliance and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** — All operating and use instructions should be followed.

**WATER AND MOISTURE** — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

**LOCATION** — The appliance should be installed in a stable location.

**WALL OR CEILING MOUNTING** — The appliance should not be mounted to a wall or ceiling.

**VENTILATION** — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

**HEAT** — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**POWER SOURCES** — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**POWER-CORD PROTECTION** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**POLARIZATION** — If you purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug to plug having one blade wider than the other. This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**CLEANING** — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

**POWER LINES** — An outdoor antenna should be located away from power lines.

**NONUSE PERIODS** — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**OBJECT AND LIQUID ENTRY** — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**DAMAGE REQUIRING SERVICE** — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

**SERVICING** — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**OUTDOOR ANTENNA GROUNDING** — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

In the U.S.A., section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

**CART** — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



NEC — NATIONAL ELECTRIC CODE

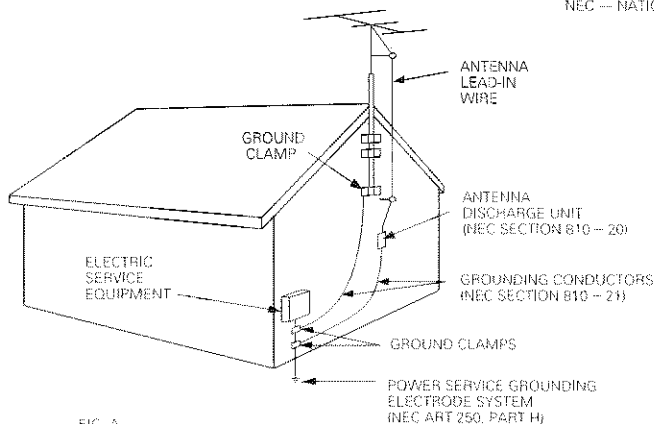


FIG. A

### Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### Information to User

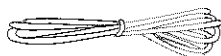
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

# CONTENTS

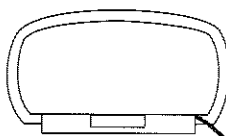
|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| ACCESSORY ITEMS .....                                                                | 3  |
| BEFORE OPERATING,<br>ADJUST THE POSITION OF THESE SWITCHES ....                      | 4  |
| SURROUND EFFECT .....                                                                | 5  |
| DOLBY 3CH LOGIC .....                                                                | 5  |
| DOLBY PRO LOGIC SURROUND, DOLBY 3CH LOGIC<br>AND PRO LOGIC THEATER CENTER MODE ..... | 6  |
| SPEAKER INSTALLATION .....                                                           | 6  |
| CONNECTIONS .....                                                                    | 7  |
| REAR PANEL FACILITIES .....                                                          | 13 |
| FRONT PANEL FACILITIES .....                                                         | 15 |
| OPERATING THE TUNER .....                                                            | 18 |
| TUNING INTO STATIONS .....                                                           | 18 |
| PRESET TUNING .....                                                                  | 19 |
| RECEIVING FM SIMULCAST TV PROGRAMS ...                                               | 20 |
| OPERATING THE AUDIO/VIDEO COMPONENTS ..                                              | 20 |
| PLAYBACK .....                                                                       | 20 |
| RECORDING WITH A CASSETTE DECK .....                                                 | 21 |
| VIDEO RECORDING .....                                                                | 22 |
| SURROUND EFFECT AND DOLBY 3CH LOGIC ...                                              | 22 |
| HINTS FOR BETTER RECEPTION.....                                                      | 23 |

|                                                     |    |
|-----------------------------------------------------|----|
| REMOTE CONTROL OPERATION .....                      | 24 |
| OPERATING USING THE GUI .....                       | 28 |
| OPERATING THE TUNER (GUI OPERATION) .....           | 29 |
| OPERATING OTHER COMPONENTS (GUI OPERATION) ....     | 30 |
| COPY OPERATION (GUI OPERATION) .....                | 34 |
| USING THE VIDEO SIGNAL SELECTOR (GUI OPERATION) ... | 34 |
| SURROUND EDIT OPERATION (GUI OPERATION) .....       | 35 |
| REMOTE SETUP (GUI OPERATION) .....                  | 36 |
| CD TYPE SETUP (GUI OPERATION) .....                 | 38 |
| ONE TOUCH OPERATION SETUP (GUI OPERATION) .....     | 39 |
| TROUBLESHOOTING .....                               | 40 |
| SPECIFICATIONS .....                                | 42 |

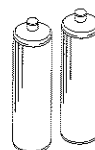
## ACCESSORY ITEMS



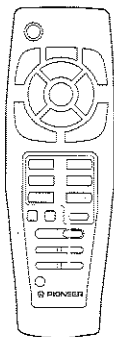
FM T-type antenna



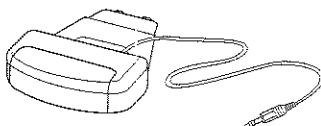
AM Loop Antenna



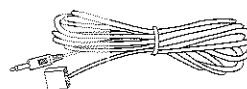
Dry cell batteries  
(AA/R6P) X 2



Remote control unit



Main-Repeater



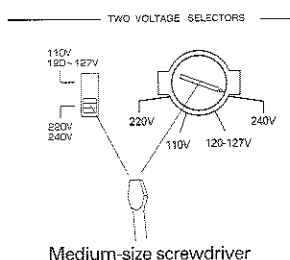
Mini-Repeater

# BEFORE OPERATING, ADJUST THE POSITION OF THESE SWITCHES

## TWO VOLTAGE SELECTOR SWITCHES (Not available on U.S. and Canadian models)

Only Multi-voltage model is provided with these switches. U.S. and Canadian models are not provided with these switches. Mains voltages in Saudi Arabia are 127 V and 220 V only. Never use this model with the 110 V setting in Saudi Arabia. The line voltage selector switches are on the rear panel. Check that they are set properly before plugging the power cord into the household wall socket. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switches as follows.

1. Use a medium-size screwdriver.
2. First, insert the screwdriver in the groove of the voltage selector at the right, and adjust so that the tip of the groove points to the voltage value of your area.
3. Next, insert the screwdriver in the groove of the voltage selector at the left and adjust until the voltage is the same as at the right.



## CHANNEL STEP /FM DE-EMPHASIS SWITCH (Not available on U.S. and Canadian models)

The unit has been factory preset to the channel allocation and de-emphasis value for the area in which it is to be sold. If these values are set incorrectly, the tuned in frequency may be wrong, or sound may be distorted, resulting in an inability to reproduce reception signals at their proper sound quality. For this reason, be sure to confirm that the values are set correctly before first using the unit.

### (FM 100 kHz/75 $\mu$ s, AM 10 kHz) position:

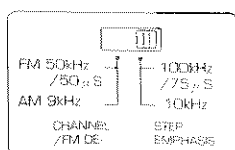
Set to this position for areas with an FM reception step of 100 kHz, de-emphasis of 75  $\mu$ s and AM reception step of 10 kHz.

### (FM 50 kHz/50 $\mu$ s, AM 9 kHz) position:

Set to this position, for areas with an FM reception step of 50 kHz, de-emphasis of 50  $\mu$ s and AM reception step of 9 kHz.

#### NOTE:

When unsure about the channel allocation and de-emphasis values for your area, consult your dealer for correct information.



## PAL/NTSC SWITCH

(Not available on U.S. and Canadian models)

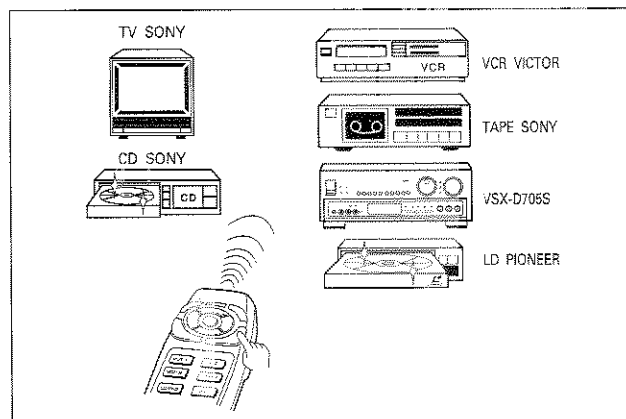
This unit uses the TV screen to operate the system. Set the rear panel PAL/NTSC switch to match your TV's color system. The screen will be unclear if the color system does not match.



## ISC Intelligent System Control

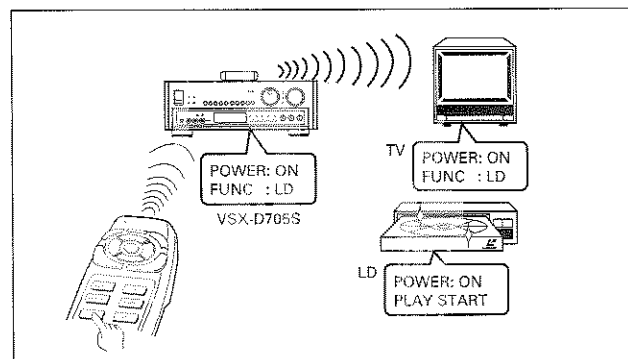
ISC is a new method of operating AV equipments proposed by Pioneer. It allows the following equipments made by other manufacturers to be controlled easily with the VSX-D705S and accompanying remote control unit.

### Control of Equipments Made by Other Manufacturers



Present Pioneer products or products made by other manufacturers (video deck, TV, LD, CD player, etc.) can be easily controlled using GUI or the remote control unit by presetting the remote control codes other manufacturers provided or presetting by learning. (Pages 36 and 37)

### One-Touch Operation



Previously, numerous components had to be operated in order to listen to CDs or watch LDs. Now, these can be done by one-touch operation (using only one key) by presetting the operation procedure on the operation screen. (Page 39)

## SURROUND EFFECT

This unit has a built-in surround processor for adding presence and an expansive effect to the sound.

### **5 Mode Selection with DSP (Digital Signal Processor):**

#### **JAZZ:**

This gives you the sound field of a jazz club.

#### **DANCE:**

A "hot" high-energy sound, with extra reverb for greater ambience.

#### **SIMULATED SURROUND:**

The "SIMULATED SURROUND" creates the effects of reverberated and reflected sound from the walls and ceiling similar to a concert hall. These sound-effects added to the actual sound from the source make you feel as if you were in a more expanded space. The different ranges of the expanded space can be set by the DELAY TIME button.

Set the Delay Time to 16 ms or 20 ms for a live-house concert. For chamber music, set to 20 ms. For orchestral music, set to 30 ms. The "SIMULATED SURROUND" also gives effects on monaural sources by outputting the added reverberated sound from the rear speakers while outputting the actual source sound from the front speakers. Turn on the "SIMULATED SURROUND" for a monaural source to gain effective surround playback.

#### **HALL:**

You can enjoy a convincing hall sound.

#### **PRO LOGIC THEATER:**

Use with video software bearing the  DOLBY SURROUND mark. The feeling of movement and outstanding stereo imaging offered by DOLBY PRO LOGIC SURROUND, together with an atmosphere of a movie theater assure an incredible ambience.

### **DOLBY\* PRO LOGIC SURROUND:**

Choose this setting for movies and music (especially Video Discs and video tapes bearing the  DOLBY SURROUND mark) playback.

DOLBY PRO LOGIC SURROUND continuously detects the size and direction of the dominant signal and cancels undesirable crosstalk, thereby providing signal emphasis. It makes you clearly perceive the directional source of the music. Real flow of sound also can be re-created naturally using this feature. You can feel as if being in an outstanding and expansive sound field.

When using DOLBY PRO LOGIC SURROUND, a delay time setting of 20 ms is commonly used. Use a different setting if you prefer. Even if the video recordings do not bear the  DOLBY SURROUND mark, some of them may be Dolby Surround encoded.

Choose the SIMULATED SURROUND mode if the source sound signal is mono. Little or no sound will be heard from the surround speakers if the DOLBY PRO LOGIC SURROUND mode is selected.

\*

*Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby," the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.*

*Fabriqué sous licence de Dolby Laboratories Licensing Corporation. DOLBY, le symbole double-D et PRO LOGIC sont des marques de Dolby Laboratories Licensing Corporation.*

## DOLBY 3CH LOGIC

Combining the rear speaker signal with that of the front speakers results in your being able to enjoy a regenerated sound field which has comparatively more presence and a more expansive feeling from the front 3 channels (front L, front R, and center speakers) than that of ordinary stereo regeneration. DOLBY 3CH LOGIC can be used with stereo sources not encoded with DOLBY SURROUND.

# DOLBY PRO LOGIC SURROUND, DOLBY 3CH LOGIC AND PRO LOGIC THEATER CENTER MODE

(For DOLBY PRO LOGIC SURROUND, DOLBY 3CH LOGIC and PRO LOGIC THEATER)

You can choose from the following settings:

## Center Mode Choices:

When using a center speaker:

- **NORMAL** — Low range frequencies, which have little effect on directionality and positioning, are routed to the left and right front speakers. This allows you to use a relatively small size speaker as the center speaker.
- **WIDE** — If you use a large size center speaker, choose this setting. The full frequency range of the Dolby Surround center channel, is routed to the center speaker.

When not using a center speaker: DOLBY PRO LOGIC SURROUND and PRO LOGIC THEATER

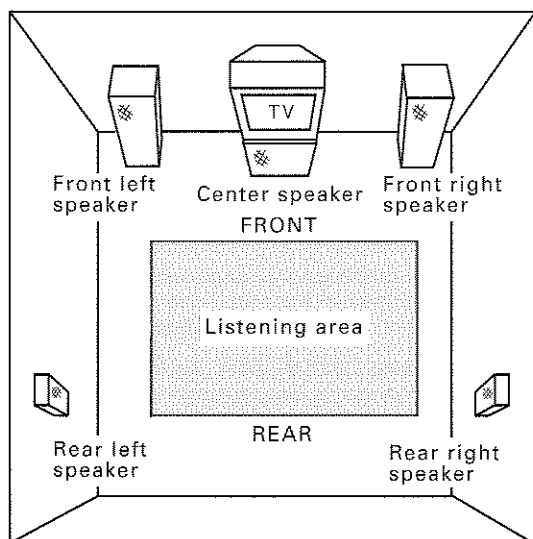
- **PHANTOM** — The signal which would have been sent to the center speaker is divided equally between the left and right front speakers.

With DOLBY PRO LOGIC SURROUND, monaural source sound will be heard only from the center channel at settings other than the PHANTOM position.

## SPEAKER INSTALLATION

To get the most out of the surround system, place the speakers as shown below.

An example of speaker location



If the rear speakers are positioned at an extreme distance from the front and center speakers, the surround level becomes unable to adjust and the surround effect will not be fully achieved.

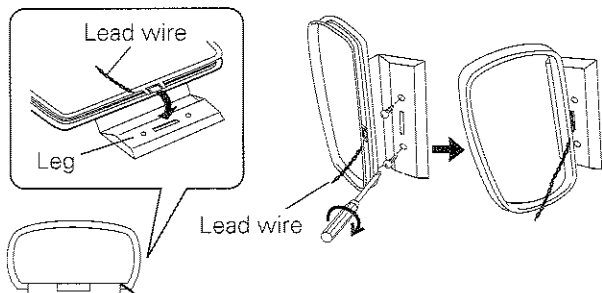
### NOTE:

- To avoid interference with the picture on a nearby TV set, use magnetically shielded speaker systems. This is particularly important for the center speaker since it is usually located closest to the TV.
- Position the left and right channel speakers at equal distances from the TV set and approximately 1.8 m (6 feet) from each other.
- Position the center speaker above, below, or behind the TV set. Sound may not appear to coincide with the picture if you position it next to the TV set.
- Rear speakers are best positioned slightly above ear level.

## CONNECTIONS

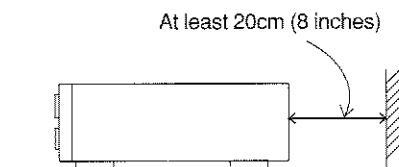
### Setting Up the AM Antenna

- Insert the claw on the bottom of the antenna into the groove in the leg.
- Place the antenna on a level surface and rotate it to locate the orientation that yields the best reception.
- Use the attachment hole in the leg to screw to a wall or other location, then insert the claw on the bottom of the antenna into the groove in the leg (fixing the antenna in the direction that gives the best reception).



### Installation Precautions

- The rear panel vents are designed to disperse heat from the unit. Be careful that curtains or other items do not block the vents.
- To improve heat dispersion, set the unit so that it is at least 20 cm (8 inches) away from the wall.

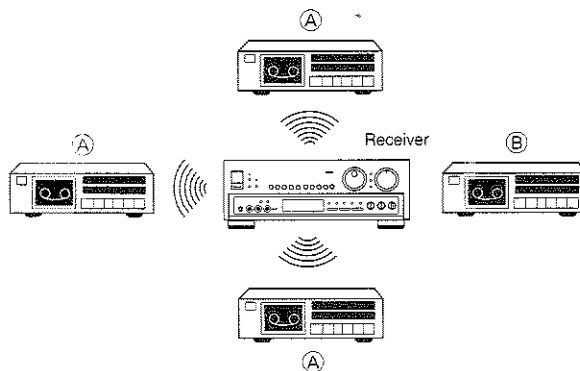


### POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or an electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

### Precaution regarding installation position of cassette deck

If the cassette deck is installed in the (A) positions as shown in the drawing below, it may be adversely affected during playback. If possible, it's better to install it in the (B) position.



## CONNECTIONS

### AUDIO SYSTEM CONNECTIONS

Illustration shows Multi-voltage model.

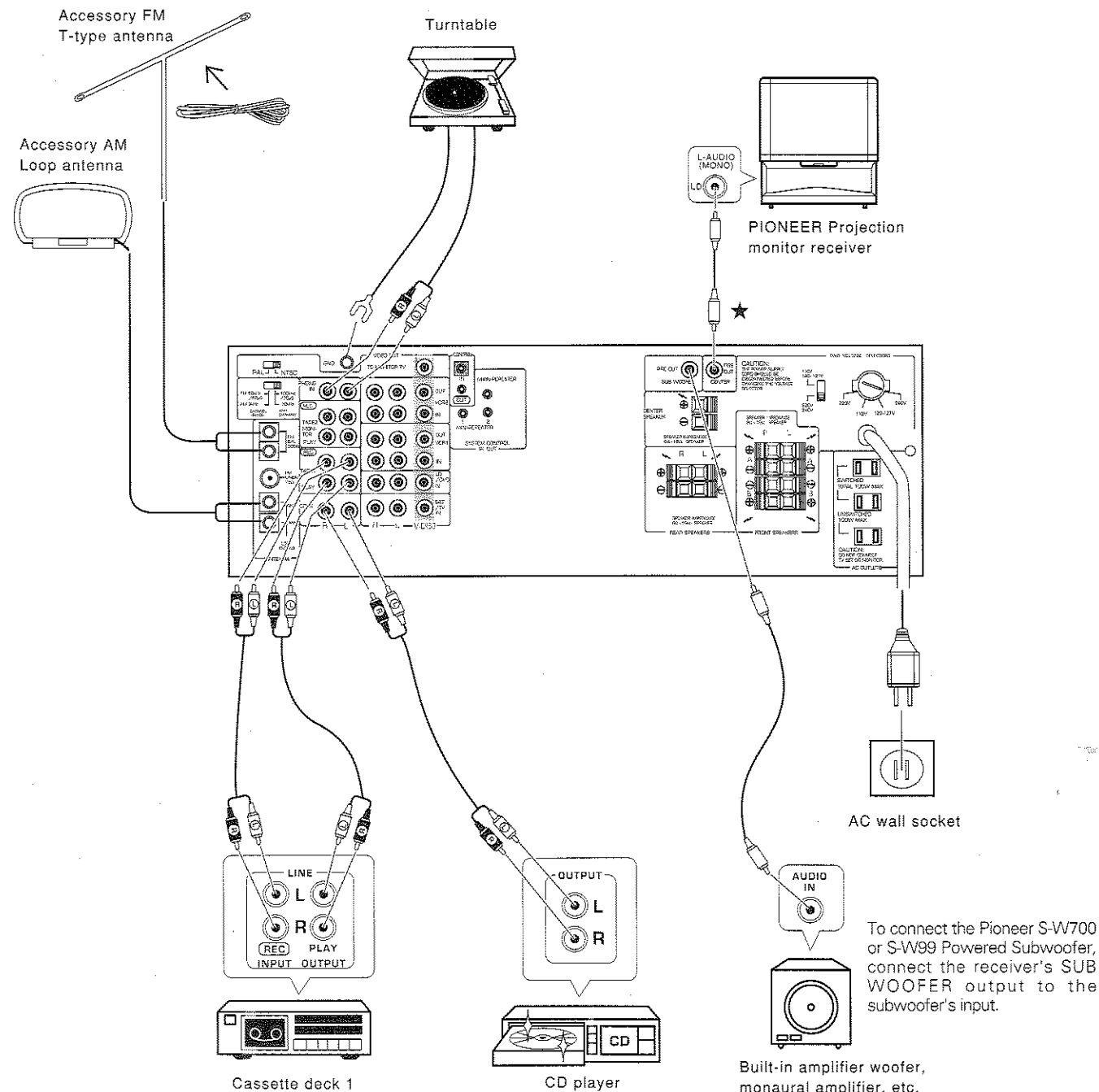
#### NOTE FOR FM ANTENNA:

Stretch the antenna out to its full length and affix it to a wall, etc.

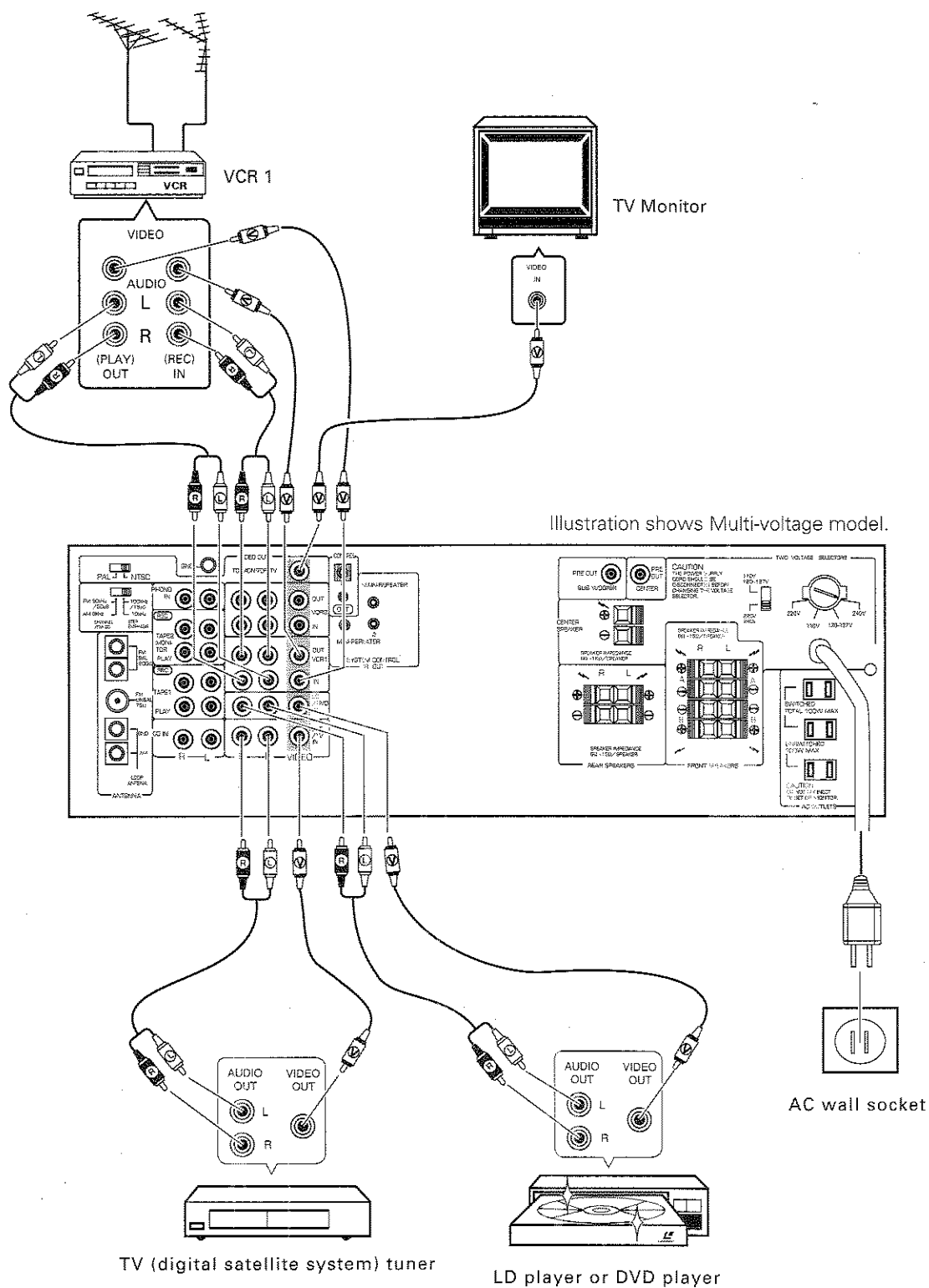
#### NOTE FOR AM LOOP ANTENNA:

The antenna should be placed at a distance from the receiver and should not be allowed to touch metallic objects. Avoid placing it near CD players, personal computers, television sets, and other devices generating radio frequencies.

★ Connect when using a PIONEER projection monitor receiver's built-in speaker as a center speaker. Refer to the projection monitor's operating instructions for details concerning connections and operation.



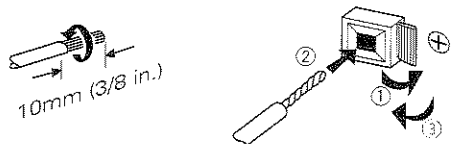
VIDEO SYSTEM CONNECTIONS



## SPEAKER CONNECTIONS

### Speaker cord connection

- ① Push the lever.
- ② Insert the cord into the hole.
- ③ Pull the lever back.



#### NOTE:

Use speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .

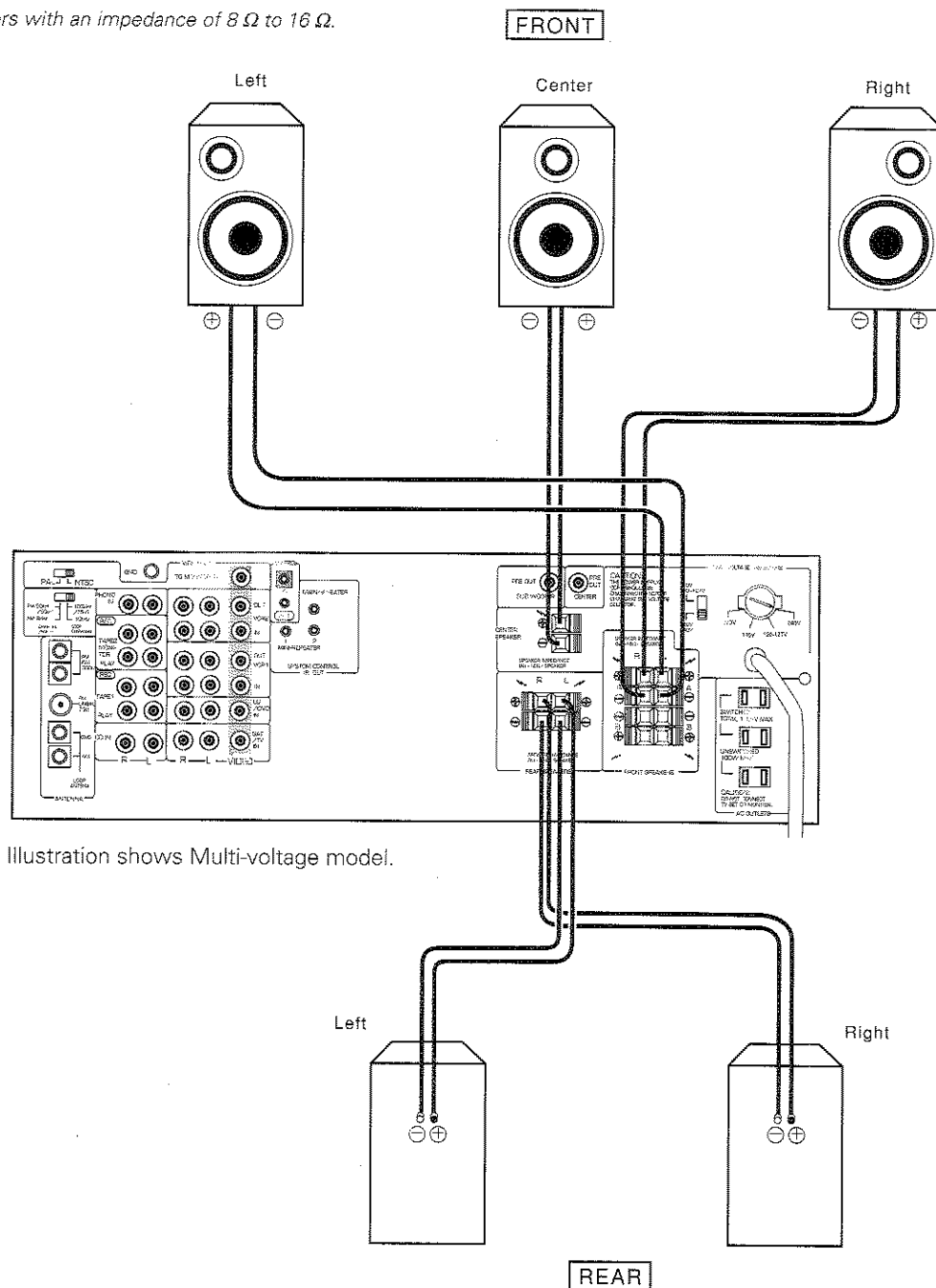


Illustration shows Multi-voltage model.

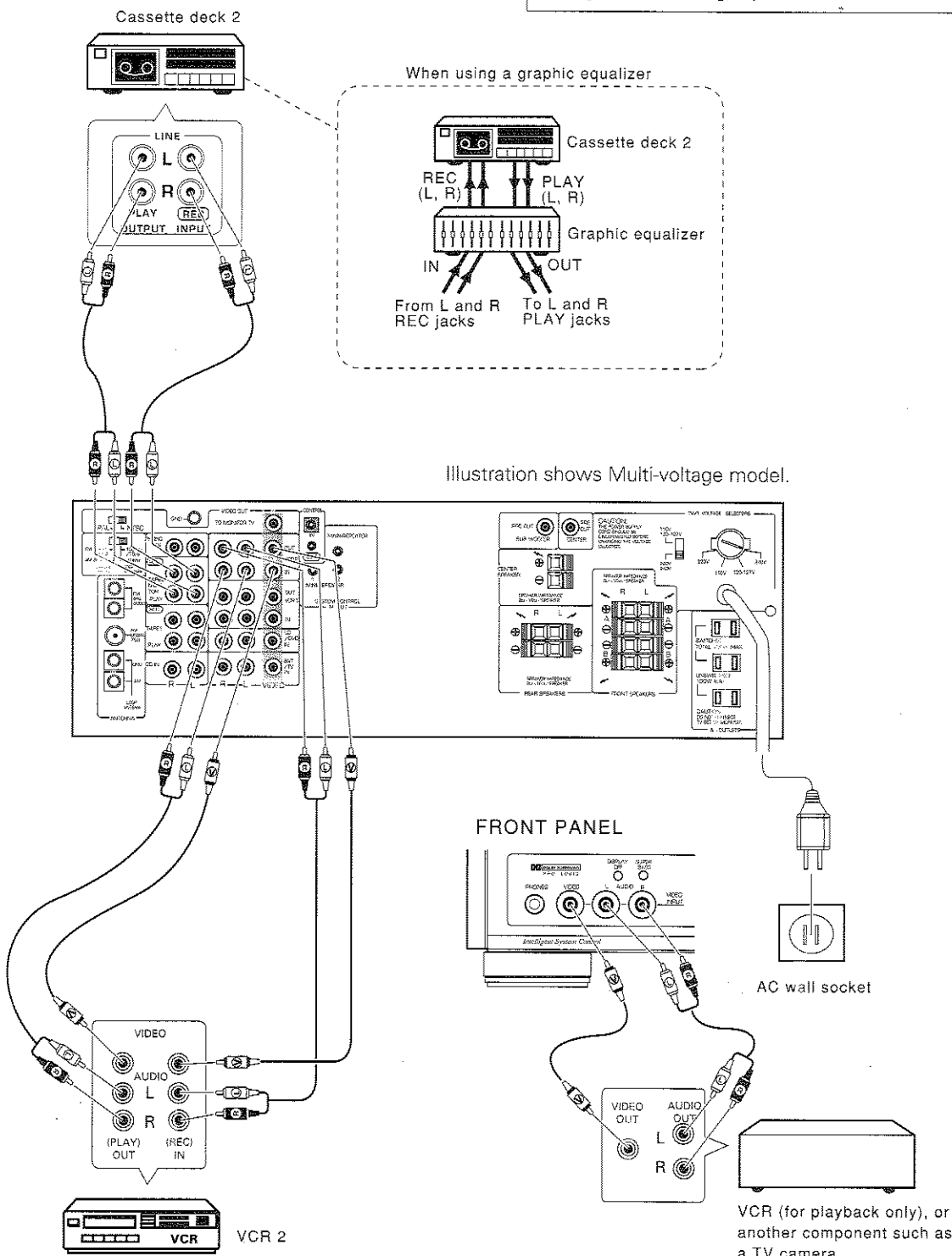
## APPLICATIONS

### Additional Audio and Video Components

#### NOTE:

DOLBY PRO LOGIC SURROUND, PRO LOGIC THEATER and DOLBY 3CH LOGIC will not operate correctly if the signal passes through a graphic equalizer.

When using DOLBY PRO LOGIC SURROUND, PRO LOGIC THEATER or DOLBY 3CH LOGIC, turn off the TAPE 2 MONITOR button or set the graphic equalizer for flat response or to its "through" (or off) setting, if you have one in use.



CONNECTIONS

IR Repeater connection

Connecting a supplied IR Repeater lets you also control other components with this unit's remote control.

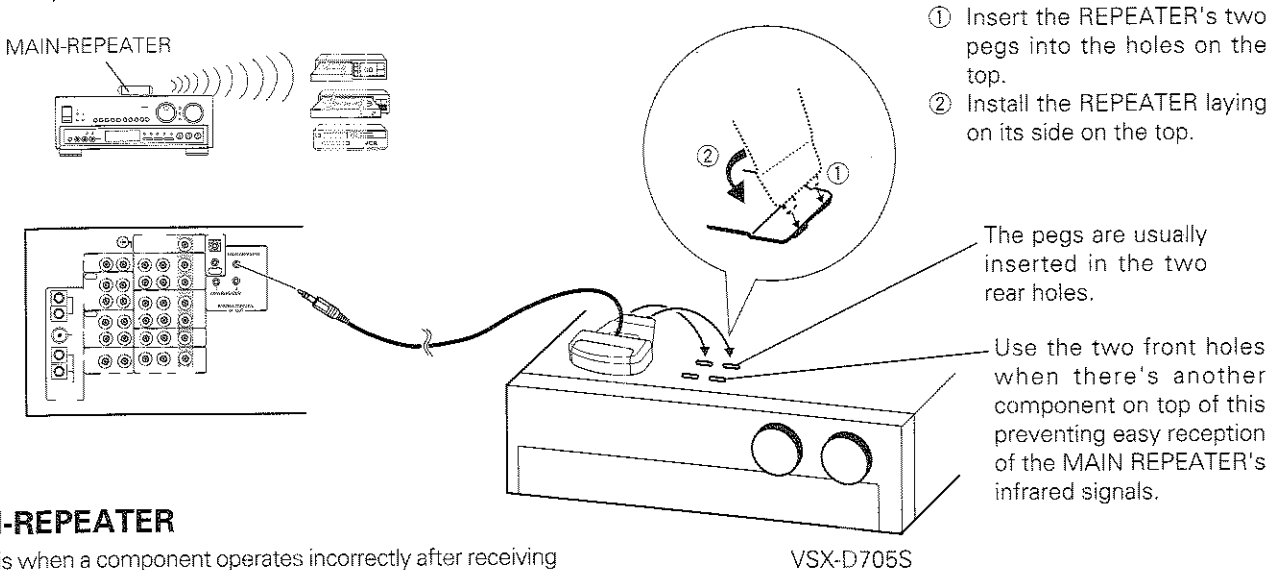
**NOTE:**  
To operate components not made by Pioneer, perform REMOTE SETUP (P.36) after connecting an IR Repeater.

Remote control signals directed towards this unit or GUI operation signals are transmitted from the repeater as infrared signals, enabling control of other components.

There are two kinds of infrared repeaters. Connect either or both to match the remote control requirements of different components.

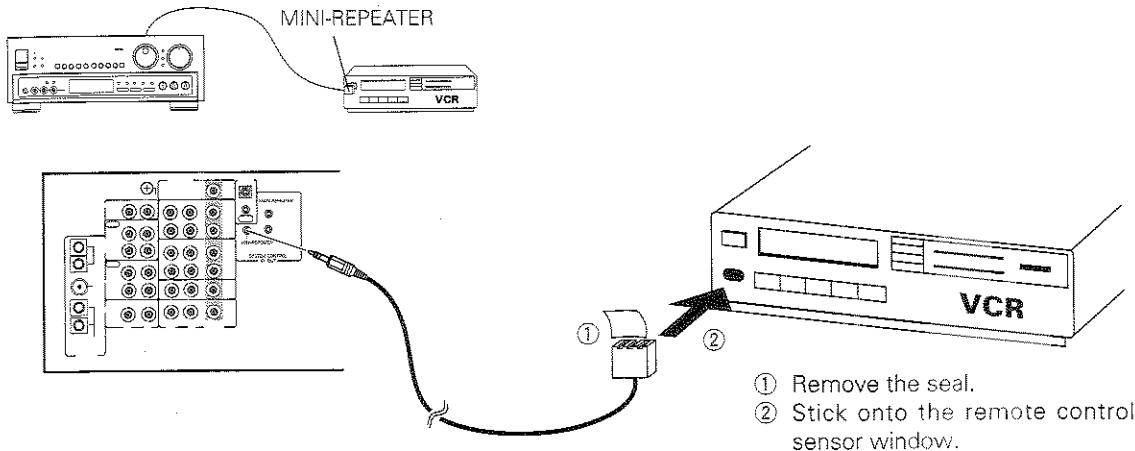
MAIN-REPEATER

Use this to operate other components with this unit's remote control or to operate using GUI on-screen indications. Install on top of this unit as shown in the figure.



MINI-REPEATER

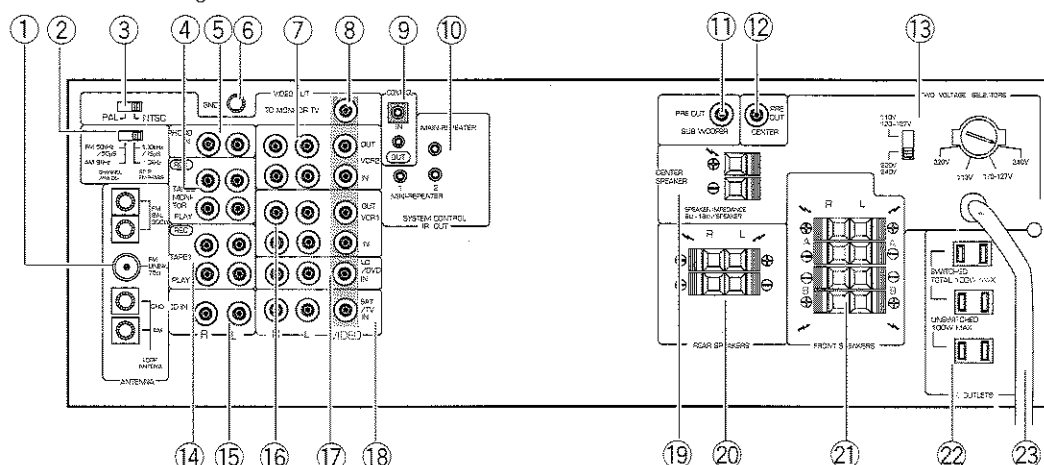
Use this when a component operates incorrectly after receiving a signal from this unit's remote control, or when it is difficult for a component to receive signals from the Main-Repeater. Stick it directly on the remote control sensor window. There are two MINI-REPEATER terminals. If you need another Mini-Repeater, contact you nearest Pioneer Service Center.



**NOTE:**  
To prevent possible damage, be careful to avoid accidentally connecting the MINI-REPEATER to the MAIN-REPEATER terminals.

# REAR PANEL FACILITIES

Illustration shows Multi-voltage model.



## ① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

## ② CHANNEL STEP switch

(Multi-voltage model only)

See page 4.

## ③ PAL/NTSC switch

(Multi-voltage model only)

See page 4.

## ④ TAPE 2 MONITOR jacks

Connect to audio components such as a second cassette deck or a graphic equalizer.

## ⑤ PHONO input jacks

Connect to the output cables from a turntable.

## ⑥ GND terminal

Connect the turntable ground lead to this terminal.

### NOTE:

This is used to decrease noise and does not serve as a complete ground.

## ⑦ VCR 2 jacks

### [VIDEO OUT]

Connect to the VCR 2 VIDEO INPUT jack.

### [AUDIO OUT (L, R)]

Connect to the VCR 2 AUDIO INPUT jacks.

### [VIDEO IN]

Connect to the VCR 2 VIDEO OUTPUT jack.

### [AUDIO IN (L, R)]

Connect to the VCR 2 AUDIO OUTPUT jacks.

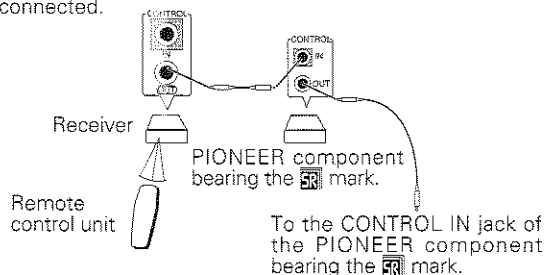
## ⑧ VIDEO OUT (TO MONITOR TV) jack

Connect to a monitor TV or to TV sets with video input terminals to watch program materials from a VCR or LD player (or DVD player) connected to this unit.

## ⑨ CONTROL IN/OUT jacks

**IN:** With a separately sold mini-plug cord (with no resistor), connect this jack to the CONTROL OUT jack of a component bearing the mark. This unit's remote control sensor will no longer receive remote control signals. However, remote control signals received by the remote sensor of the component bearing the mark are transmitted through the mini-plug cable, enabling control of this unit with the remote control of the component bearing the mark.

**OUT:** With a separately sold mini-plug cord (with no resistor), connect this jack to the CONTROL IN jack of a component bearing the mark. This unit outputs remote control signals to another component or outputs remote control signals received from another component, depending on how it is connected.



### NOTE:

- If there is a plug in this unit's CONTROL IN jack, ISC (Intelligent System Control) (including GUI operation) is not possible.
- The remote control unit provided with this unit adopts a different method from the remote control units of Pioneer systems. Consequently, this unit and other components will not operate when the remote control unit is directed at the remote control signal sensor window of the connected components. Other components will not operate unless a signal is received by the sensor window of this unit, and this unit consequently converts the signal received to the remote control signal corresponding to the other component.

## ⑩ SYSTEM CONTROL IR OUT jacks

To operate other components with this unit's remote control or GUI, connect the supplied repeater. (See page 12.)

### MINI-REPEATER 1, 2:

Connect the supplied Mini-Repeater.

### MAIN-REPEATER:

Connect the supplied Main-Repeater.

## REAR PANEL FACILITIES

### ⑪ SUB WOOFER PRE OUT jack

If you want to boost the low frequencies, connect to a subwoofer power amplifier.

### ⑫ CENTER PRE OUT jack

When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

### ⑬ TWO VOLTAGE SELECTORS switches (Multi-voltage model only)

See page 4.

### ⑭ TAPE 1 jacks

Connect to the first cassette deck.

### ⑮ CD input jacks

Connect to the output jacks of a compact disc player.

### ⑯ VCR 1 jacks

#### [VIDEO OUT]

Connect to the VCR 1 VIDEO INPUT jack.

#### [AUDIO OUT (L, R)]

Connect to the VCR 1 AUDIO INPUT jacks.

#### [VIDEO IN]

Connect to the VCR 1 VIDEO OUTPUT jack.

#### [AUDIO IN (L, R)]

Connect to the VCR 1 AUDIO OUTPUT jacks.

### ⑰ LD/DVD input jacks

Connect to an LD player's or DVD player's output jacks (audio, video).

### ⑱ SAT (Satellite)/TV jacks (input)

Use these jacks if you wish to connect a TV (digital satellite system) tuner with both video and audio outputs.

### ⑲ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

#### NOTE:

*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use a center speaker with an impedance of 8  $\Omega$  to 16  $\Omega$ .*

### ⑳ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

#### NOTE:

- Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use rear speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .
- Be sure to connect two speakers (L, R). There will be no sound if only one speaker is connected.

### ㉑ FRONT SPEAKERS terminals

**A** : Connect to the first set of speakers.

**B** : Connect to the second set of speakers.

#### NOTE:

*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other. Use front speakers with an impedance of 8  $\Omega$  to 16  $\Omega$ .*

### ㉒ AC OUTLETS

(U.S. and Canadian models)

#### [SWITCHED TOTAL 100 W (0.8 A) MAX]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

#### [UNSWITCHED 100 W (0.8 A) MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).

(Multi-voltage model)

#### [SWITCHED TOTAL 100 W MAX]

Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

#### [UNSWITCHED 100 W MAX]

Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

#### NOTE:

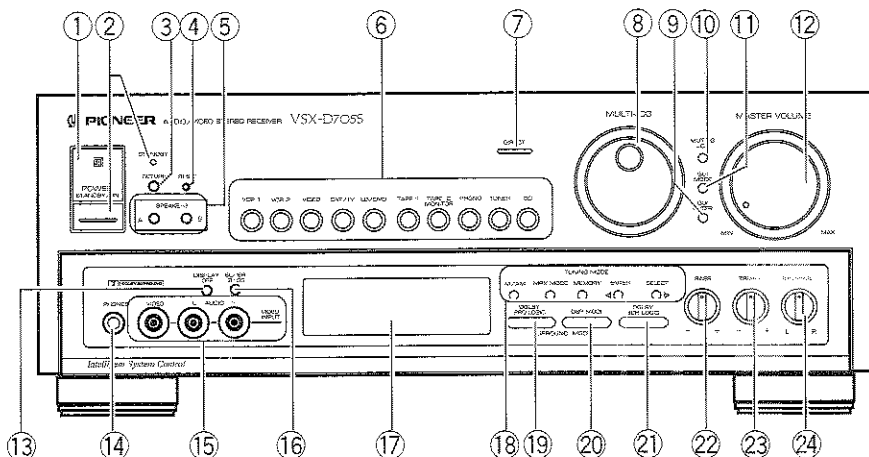
- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk. This can cause the receiver to malfunction.

#### CAUTION:

**DO NOT CONNECT MONITOR OR TV SET.**

### ㉓ Power cord

# FRONT PANEL FACILITIES



## ① Remote sensor

## ② POWER STANDBY/ON switch, STANDBY indicator

This is the switch for electric power.

**ON:** When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY:** When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The STANDBY indicator lights when the power is set to STANDBY and goes out when set to ON.

**(Timer ON/OFF possible)**

When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

### NOTE:

When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.

## ③ RETURN button

Press this button to return the receiver to its initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

|                         |                |                          |
|-------------------------|----------------|--------------------------|
| TAPE 2 MONITOR .... OFF | FUNCTION ..... | TUNER                    |
| DSP MODE .....          | OFF            | DOLBY PRO LOGIC .... OFF |
| SUPER BASS .....        | OFF            | DOLBY 3CH LOGIC .... OFF |
| MUTING .....            | OFF            |                          |

And SPEAKERS buttons switch as follows.

| Before pressing the RETURN button | After pressing        |
|-----------------------------------|-----------------------|
| Both A and B are off              | → Only A is on        |
| Only A is on                      | → No change           |
| Only B is on                      | → Both A and B are on |
| Both A and B are on               | → No change           |

### NOTE:

Press the RETURN button and the frequency last selected is received. If reception of the frequency last selected is not possible, the mode automatically switches to AUTO TUNING.

## ④ RESET button

Use this when normal operation is not possible because of external influences such as static electricity or lightning, or when operations are not functioning even when operation buttons are pressed. Press this button to return to normal operating conditions.

## ⑤ SPEAKERS buttons (A,B)

ON/OFF switches for the A and B speaker systems.

## ⑥ Input selector buttons

**VCR 1:** Press when performing playback on a first VCR unit.

**VCR 2:** Press when performing playback on a second VCR unit.

**VIDEO:** Press when performing playback on a TV camera or VCR connected to the VIDEO INPUT jack on the front panel.

**SAT/TV:** Press to watch TV broadcasts from the TV (digital satellite system) tuner connected to the rear panel SAT/TV IN jacks.

**LD/DVD:** Press when performing playback on an LD player (or DVD player).

**TAPE 1:** Press when performing playback on a cassette deck.

### TAPE 2 MONITOR:

Press when performing playback on a second cassette deck and when monitoring recording.

**PHONO:** Press when playing records on a turntable.

**TUNER:** Press when listening to radio broadcasts.

**CD:** Press when playing compact discs on a CD player.

### ⑦ DIRECT button\*

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry. The surround mode, super bass, and rear and center speakers are automatically switched off.

### ⑧ MULTI-JOG and indicator

Use during tuner operation to select frequencies and station numbers. During GUI operation, use to move the on-screen cursor. When GUI is ON, the JOG indicator lights.

You can also use this to input File-Type CD player disc titles.

### ⑨ GUI ENTER button (GUI operation)

Press to execute an operation selected with the MULTI-JOG.

### ⑩ MUTING button

Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

### ⑪ GUI MODE button

Switches GUI MODE on and off.

### ⑫ MASTER VOLUME control

Use it to simultaneously adjust the sound volume from the front, center, and rear speakers.

### ⑬ DISPLAY OFF button

This switches the display OFF.

### ⑭ PHONES jack

Connect the plug on your headphones to this jack. Set SPEAKERS A and B switches to OFF if you want to cut the sound from the speakers and listen to it only through the headphones.

### ⑮ VIDEO INPUT jacks

VIDEO components such as a VCR or TV camera, etc. can be connected.

### ⑯ SUPER BASS button\*

Press this button when you want to boost the bass.

### ⑰ Display section

See page 17.

### ⑱ TUNING MODE buttons

#### FM/AM button:

Use this to switch between FM and AM frequency band reception.

#### MPX MODE button:

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the MONO indicator in the display section is lit.

#### Auto stereo mode

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

#### Monaural mode

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

#### NOTE:

*This button has no effect on reception of AM broadcasts.*

#### MEMORY button:

Press this button to switch to the frequency preset mode. (When GUI is ON, it does not operate.)

#### ENTER button:

Press this button when you are in the frequency preset mode, and the displayed frequency is memorized in the selected station. (Station indications stop flashing and stay lit.)

You can also use this to input File-Type CD player disc titles.

#### SELECT button:

Press this button to switch to the station mode. Then you can turn the MULTI-JOG to select a station.

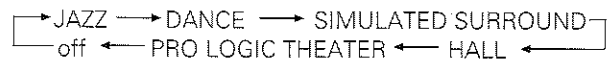
You can also use this to input File-Type CD player disc titles.

### ⑲ DOLBY PRO LOGIC button\*

Switches DOLBY PRO LOGIC SURROUND on and off.

### ⑳ DSP MODE button\*

Each time you press it, the mode and the display indications change as follows:



### ㉑ DOLBY 3CH LOGIC button\*

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the  DOLBY SURROUND mark.

### ㉒ BASS control

Use to adjust the low-frequency level. Turn clockwise to boost bass, and counterclockwise to attenuate bass.

### ㉓ TREBLE control

Use to adjust the high-frequency level. Turn clockwise to boost treble, and counterclockwise to attenuate treble.

### ㉔ BALANCE control

Use to adjust the sound volume balance between left and right speakers.

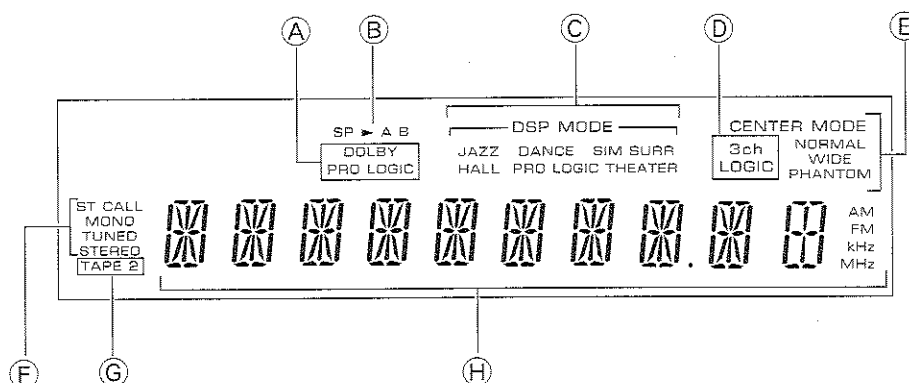
**L** : Decreases the sound on the right side.

**R** : Decreases the sound on the left side.

Usually, left and right volume levels should be the same.

\* Setting is memorized separately for each input selector button.

## DISPLAY SECTION



### Ⓐ DOLBY PRO LOGIC indicator

### Ⓑ SP (SPEAKERS) A, B indicators

Shows which speaker system (or systems) are switched on.

### Ⓒ DSP MODE indicators

### Ⓓ DOLBY 3CH LOGIC indicator

### Ⓔ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO LOGIC SURROUND, PRO LOGIC THEATER and DOLBY 3CH LOGIC operation (refer to page 6).

### Ⓕ Tuning indicators

#### ST (STATION) CALL:

Press the SELECT button to switch to the station mode, and this indicator lights.

**MONO:** Lights up when the FM MONO mode is selected with the MPX MODE button.

**TUNED:** Lights up when a station is tuned.

**STEREO:** Lights up when a stereo FM broadcast is being received.

### Ⓖ TAPE 2 indicator

Lights up when the input selector is set to TAPE 2 MONITOR ON.

### Ⓗ CHARACTER display

## OPERATING THE TUNER

Press the POWER switch to the ON position.  
Select TUNER with the input selector button.  
Be sure to turn the TAPE 2 MONITOR button OFF when listening to AM or FM broadcasts.  
Switch ON the SPEAKERS button corresponding to the speakers you wish to use.

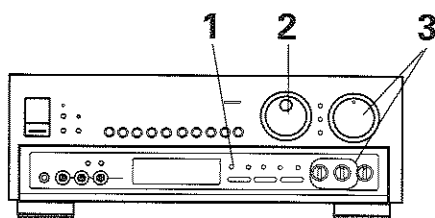
### FM auto stereo reception and monaural reception

Each time you press the MPX MODE button, the MONO indicator in the display section lights or goes out.

- If an FM stereo broadcast is received when the MONO indicator is out, the STEREO indicator lights, and sound is in stereo.
- If an FM stereo broadcast is received when the MONO indicator is lit, the sound will be monaural. If there is interference during stereo mode reception, switch to mono. The sound will become monaural but interference will be reduced.

## TUNING INTO STATIONS

Turn the MULTI-JOG, and the tuning frequency changes.  
(If the GUI MODE button is on, switch it off.)  
Turning in a clockwise direction raises the frequency, while turning in a counter-clockwise direction lowers the frequency.



### 1. Use the FM/AM button to select either FM or AM.

When the "ST CALL" indicator is lit in the display, press the SELECT button to switch it off.

### 2. Turn the MULTI-JOG until you reach the frequency of a desired station.

When a station is received, the TUNED indicator will light up.

#### NOTE:

*The TUNED indicator may not light with broadcasts received over long distances or when the broadcast signals are extremely weak.*

### 3. Adjust the volume and tone as desired.

### Auto tuning

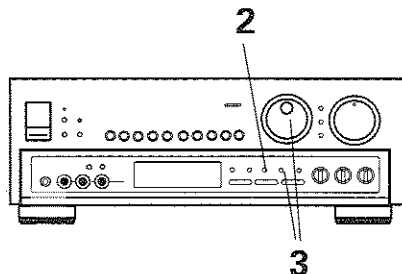
Auto tuning is convenient when you do not remember the frequency of a desired station, or when you wish to find stations that you do not normally listen to.

Operate by remote control. (Refer to page 27.)

You can also perform Auto Tuning using the GUI. (Refer to page 29.)

# PRESET TUNING

## FREQUENCY PRESETTING



If the GUI MODE button is on, switch it off.

**1. Tune into the desired station.**

See the section "TUNING INTO STATIONS".  
In addition to station frequencies, the MPX MODE (auto stereo mode or monaural mode) can also be preset (FM only).

**2. Press the MEMORY button.**

The station (channel) number flashes in the display. (Memory mode)

**3. Turn the MULTI-JOG to select the station (channel) you want to memorize, and press the ENTER button.**

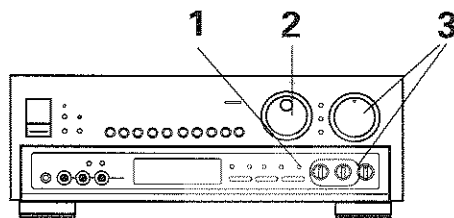
- The station (channel) number lights in the display, indicating that it has been memorized.
- If you do not press the ENTER button within about five seconds after selecting a station, the memory mode is canceled.

**4. Repeat steps 1 to 3 to preset additional stations.**

A total of 30 AM and FM stations may be preset. When you store a new preset, it takes the place of the previously stored station (if any).

You can also preset station using the GUI. (Refer to page 29.)

## LISTENING TO BROADCASTS USING PRESET TUNING



If the GUI MODE button is on, switch it off.

**1. Press the SELECT button.**

The "ST CALL" indicator lights in the display and the mode switches to station call.

**2. Turn the MULTI-JOG to select a station.**

**3. Adjust the volume and tone as desired.**

When operating by remote control, press the ST +/- buttons to select a memorized station. (Refer to page 27.)

With GUI, you can also select preset channels. (Refer to page 29.)

**NOTE:**

*Even if the receiver power cord is unplugged, data remains in memory for several days. If the contents of the memory are erased, preset once more.*

**Last station memory**

When the POWER switch is pressed to turn the power on, the last station received before the power was previously turned off will be tuned in again. When the power is ON, if the FM/AM button is pressed, the last station received before the FM/AM button was previously pressed will be tuned in again.

## RECEIVING FM SIMULCAST TV PROGRAMS

By combining a TV set with this receiver, you can receive FM simulcast TV programs (stereo TV sound transmitted from an FM radio station) while viewing the video portion on your TV.

1. **Select the desired TV program with the TV set.**
2. **Tune in the desired FM simulcast TV program on the receiver.**
3. **Adjust the volume and tone controls as desired.**

## OPERATING THE AUDIO/VIDEO COMPONENTS

Press the power switch to the ON position, and turn on the power to the other components you wish to use (for example, TV, VCR, cassette deck, etc.).

## PLAYBACK

1. **Use the input selector buttons to select the desired program source.**

\*If you select a music source other than TAPE 2, switch OFF the TAPE 2 MONITOR.

| Program Source                                                                                    | Input selector |
|---------------------------------------------------------------------------------------------------|----------------|
| To watch a video cassette tape on the VCR connected to the VCR 1 jacks.                           | VCR 1          |
| To watch a video cassette tape on the VCR connected to the VCR 2 jacks.                           | VCR 2          |
| To watch a VCR connected to the VIDEO INPUT jacks of front panel.                                 | VIDEO          |
| To watch the TV picture from a TV (digital satellite system) tuner connected to the SAT/TV jacks. | SAT/TV         |
| To watch a LaserDisc or DVD.                                                                      | LD/DVD         |
| To listen to a tape on the cassette deck connected to the TAPE 1 jacks.                           | TAPE 1         |
| To listen to a tape on the cassette deck connected to the TAPE 2 MONITOR jacks.                   | TAPE 2 MONITOR |
| To listen to a record.                                                                            | PHONO          |
| To listen to a compact disc.                                                                      | CD             |

2. **Operate the appropriate audio/video component to playback the program source.**

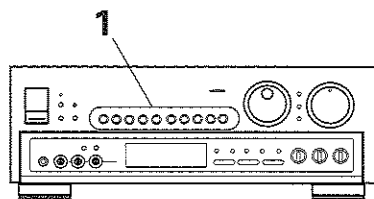
For a video source, switch the TV connected to this unit to the video input mode.

3. **Adjust the volume and tone controls as desired.**  
Refer to pages 5, 6 and 22 for details concerning surround operation. (Surround operation is also possible with GUI. Refer to page 35.)

# RECORDING WITH A CASSETTE DECK

## RECORDING WITH TAPE 1

If the TAPE 2 MONITOR button is ON, press to turn OFF.



1. **Select the source you want to record from with the input selector buttons.**

When recording AM or FM broadcasts, select a preset station using the MULTI-JOG. If the desired station has not been preset, tune in the station.

2. **Start recording on the TAPE 1 cassette deck.**
3. **Play the desired program source (record, compact disc, etc.).**

The volume, balance, and tone controls have no effect on the recording.

## RECORDING WITH TAPE 2

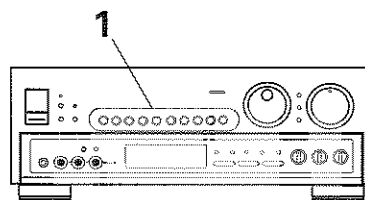
1. **Select the source you want to record from with the input selector buttons.**
2. **Start recording on the TAPE 2 cassette deck.**
3. **Play the desired program source (record, compact disc, etc.).**

The volume, balance, and tone controls have no effect on the recording.

## USING VCR 1, VCR 2 FOR AUDIO RECORDING

The audio signal output from the VCR 1 and VCR 2 AUDIO OUT jacks is the same as that output from the TAPE 1 REC jacks, so you can record using the same procedure as for RECORDING WITH TAPE 1.

## COPYING TAPES



The following operations concern TAPE 1 to TAPE 2 copying.

1. **Press the TAPE 1 input selector button.**
2. **Load the TAPE 1 cassette deck with a tape to playback.**
3. **Load the TAPE 2 cassette deck with a tape to record to.**
4. **Start recording on the TAPE 2 cassette deck.**
5. **Start playback on the TAPE 1 cassette deck.**

The following operations concern TAPE 2 to TAPE 1 copying.

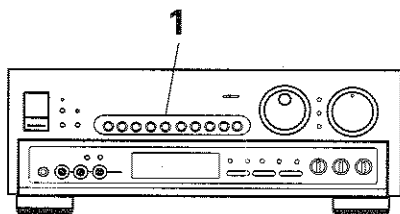
1. **Select a source other than TAPE 1 with the input selector buttons.**
2. **Press the TAPE 2 MONITOR button to turn it ON.**
3. **Load the TAPE 2 cassette deck with a tape to playback.**
4. **Load the TAPE 1 cassette deck with a tape to record to.**
5. **Start recording on the TAPE 1 cassette deck.**
6. **Start playback on the TAPE 2 cassette deck.**

### Tape monitoring

When recording is performed on a cassette deck equipped with a monitoring function, the recorded sound can be monitored through the speaker system by pressing the TAPE 2 MONITOR button to ON.

## VIDEO RECORDING

Refer to the connection procedures on pages 8 to 12 and refer to the VCR's Operating Instructions regarding proper operation procedures. Recording can be performed on both VCR 1 and VCR 2.



### 1. Select the source you want to record from with the input selector buttons.

- When recording from a LaserDisc or DVD on VCR 1 or VCR 2  
→ LD/DVD
- When recording from the TV (digital satellite system) tuner on VCR 1 or VCR 2 → SAT/TV
- When recording from the VCR 1 on VCR 2 → VCR 1
- When recording from the VCR 2 on VCR 1 → VCR 2
- When recording on VCR 1 or VCR 2 from a component connected to the front panel VIDEO INPUT jacks → VIDEO

### 2. Start recording on the VCR.

For the VCR, select a line input (external input).

### 3. Start playback on the component selected with the input selector.

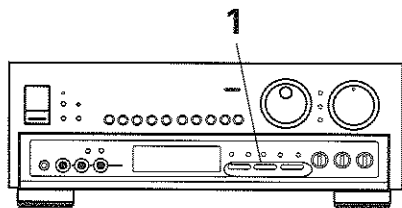
The volume, balance, and tone controls have no effect on the recording.

#### NOTE:

When recording with VCR 1, be sure the input selector is set to a position other than VCR 1. When recording with VCR 2, be sure the input selector is set to a position other than VCR 2.

GUI operation enables easy copying from a Laserdisc or DVD to VCR 1 (or 2), and copying between VCR 1 and VCR 2. (Refer to page 34.)

## SURROUND EFFECT AND DOLBY 3CH LOGIC

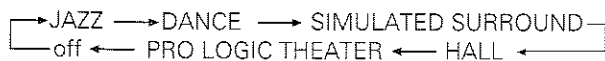


### 2. Adjust levels to achieve a correct surround sound reproduction.

This is done using the GUI (page 28). For details concerning how to perform level adjustment, refer to page 35.

### 1. Select the desired mode with the DOLBY PRO LOGIC button, DSP MODE button, and DOLBY 3CH LOGIC button.

The DSP MODE changes in sequence each time the DSP MODE button is pressed. (The DSP MODE indicator lights.)



# HINTS FOR BETTER RECEPTION

## EXTERNAL FM ANTENNA

The main advantage of FM over AM is the quality of the broadcast signal. In order to benefit fully from the high signal quality of FM broadcasts, it is recommended that a special-purpose FM antenna be installed. In weak signal areas, a multi-element (3-element, 5-element, 7-element) antenna should be used.

## GROUNDING

Grounding is recommended if reception of FM programs is impaired by noise. To ground, connect a thick polyvinyl-insulated wire to the GND terminal and attach the other end to a metal water pipe or grounding bar or wind it around a copper plate and bury it.

### NOTE:

Never connect a wire to a gas pipe for grounding since sparks may ignite the gas.

## EXTERNAL AM ANTENNA

If it is not possible to obtain adequate AM reception even by changing the orientation of the AM loop antenna, a separate indoor antenna or an outdoor antenna should be installed.

## INDOOR AM ANTENNA

Use a vinyl-insulated wire 5 to 6 meters long (15 to 18 feet) and connect one end to the AM antenna terminal and affix the other end to the wall or ceiling, as high as possible.

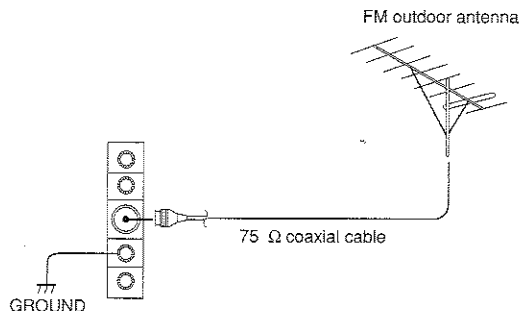
## OUTDOOR AM ANTENNA

If reception quality is not improved sufficiently even when an indoor antenna is used, a vinyl-insulated wire should be installed outside and fixed in place.

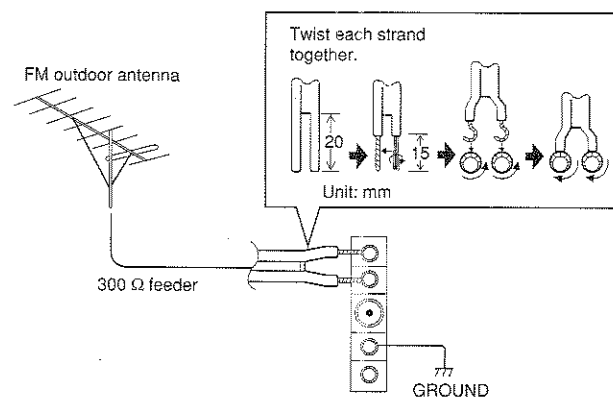
### NOTE:

Do not detach the AM loop antenna when using an indoor or an outdoor AM antenna.

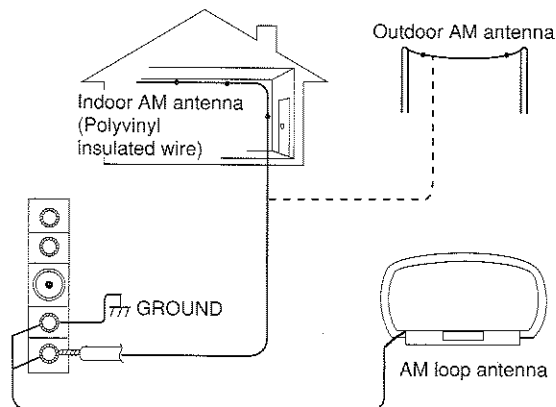
### Connecting the 75 $\Omega$ coaxial cable



### Connecting the 300 $\Omega$ feeder



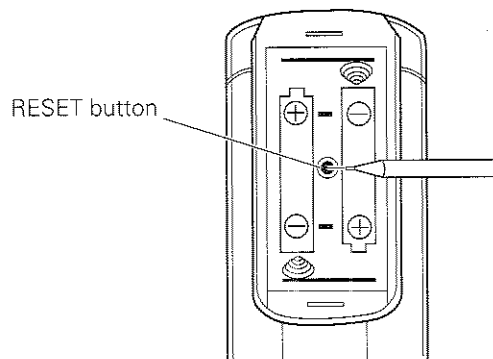
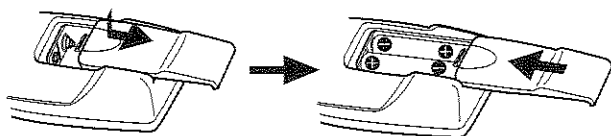
### AM antenna connection



## REMOTE CONTROL OPERATION

*ISC* Intelligent  
System Control

### PUTTING BATTERIES INTO THE REMOTE CONTROL UNIT



1. Open the battery compartment cover on the rear of the remote control unit. The cover should open easily if you slide it in the direction of the arrow while pressing on it with your thumb.
2. Press the RESET button in the battery compartment using the tip of a mechanical pencil.
3. Take out the two supplied batteries (AA/R6P), and insert them into the battery compartment in accordance with the indications in the compartment.
4. Close the cover of the battery compartment.

**Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:**  
**A.**

Always insert batteries into the battery compartment correctly matching the positive (+) and negative (-) polarities, as indicated inside the compartment.

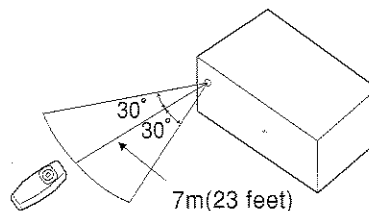
**B.**

Never mix new and used batteries.

**C.**

Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

### REMOTE CONTROL RANGE



When operating the remote control unit, point the front of the unit at the front panel of the receiver. The remote control unit may be used within a range of about 7 meters (23 feet) from the remote sensor, within angles of up to about 30 degrees.

Performance of the remote control unit is adversely affected in the presence of a strong fluorescent light. Keep such lights away, especially from the sensor window.

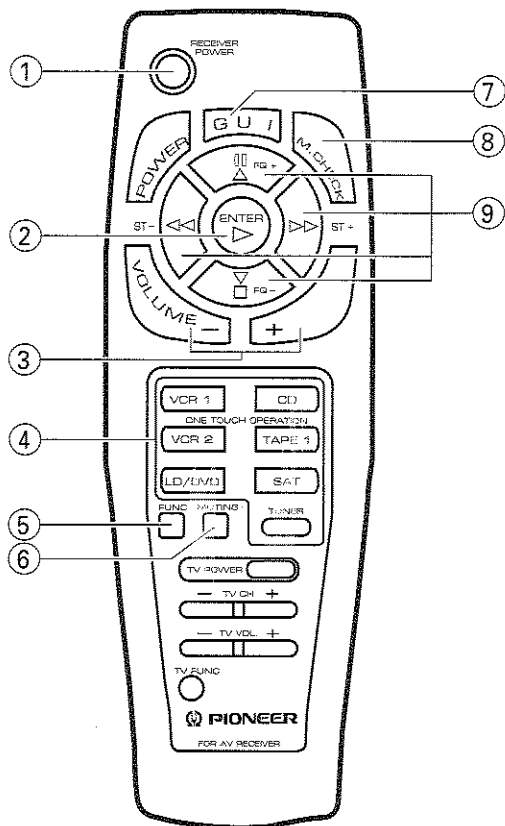
### Battery Replacement

As battery power runs down, the range over which the remote control unit can operate decreases. Also, ONE TOUCH OPERATION and other buttons light less brightly.

When the range becomes too short, change the batteries.

Components bearing the  mark cannot be operated with the supplied remote control unit, because it does not correspond to system remote.

## RECEIVER CONTROL BUTTONS



### ① RECEIVER POWER button

Switches the receiver power between ON and STANDBY.

### ② ENTER button

When the GUI is ON, press to execute an operation selected with the Select/Adjust buttons.

When the GUI mode is OFF, use to operate other components.

### ③ VOLUME +, - buttons

Adjusts the overall volume.

### ④ ONE TOUCH OPERATION buttons

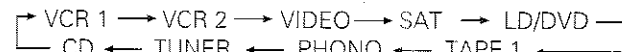
VCR 1/2, CD, LD/DVD, TAPE 1, SAT, TUNER :

Pressing these buttons automatically calls up "ONE TOUCH OPERATION SETUP" settings, made using the GUI. (P. 39)

Also, if power to this unit is OFF, it is switched ON, and operation automatically switches to the selected function. When you press any of the ONE TOUCH OPERATION buttons, the GUI MODE switches off.

### ⑤ FUNC (function) button

Press to select the receiver input.



### ⑥ MUTING button

Used to temporarily mute the sound. When it's in the on position, the indicator on the MASTER VOLUME knob flashes. The volume is restored when pressed again.

### ⑦ GUI button

Switches the GUI MODE on and off.

When the GUI mode is ON, the Select/Adjust button ⑨ (Δ, ▷, ▽, ◁) lights.

### ⑧ M.CHECK (Mode check) button

Indicates whether the GUI MODE is on or off.

When it is on, Δ, ▷, ▽, ◁ light. When it is off, a ONE TOUCH OPERATION button lights to indicate the current function except the TUNER function.

### ⑨ Select/Adjust buttons (Δ, ▷, ▽, ◁)

When the GUI mode is ON, Δ, ▷, ▽, and ◁ light.

When using the GUI function with the on-screen display, such operations as selection and adjustments can be performed (by moving the cursor).

When the GUI mode is OFF, other components can be operated.

## OPERATING OTHER COMPONENTS

### REMOTE CONTROLLING OF ANY OTHER OF YOUR AUDIO-VISUAL COMPONENTS VIA THIS UNIT REQUIRES:

All components must be remote controllable (have a sensor window on the front panel) to receive a direct command from this unit, upon successful learning of those commands by this programmable unit.

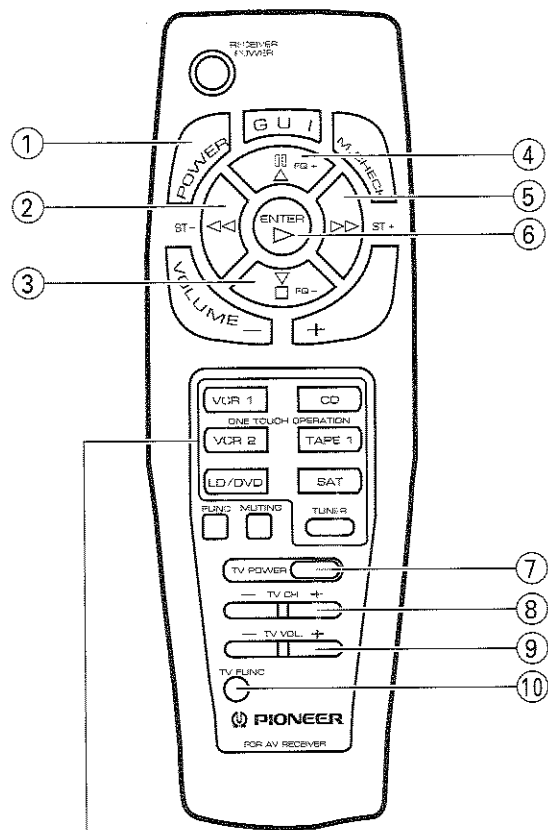
**When operating components other than the receiver:**

1. Press the ONE TOUCH OPERATION button for the component you want to operate.
2. Press the operation button.

#### NOTE:

Components that could not originally be operated by remote control cannot be controlled by this unit's remote control.

## REMOTE CONTROL OPERATION



ONE TOUCH OPERATION buttons switch between each of the functions.

### TV operation

This can be operated either by TV or CATV.

- ⑦ **TV POWER button:**  
Switches the TV power ON/OFF.  
If CATV is selected, switches the CATV power ON/OFF.
- ⑧ **TV CH (channel) +, - button:**  
Switches the TV channels in order.  
If CATV is selected, switches the CATV channels.
- ⑨ **TV VOL (volume) +, - button:**  
Raises (+) and lowers (-) the volume.  
These buttons do not function if CATV is selected.
- ⑩ **TV FUNC (function) button:**  
Used to change the TV FUNCTION.  
TV FUNC button cannot be used with some PIONEER TVs.  
These buttons do not function if CATV is selected.

### VCR 1/VCR 2 operation

- ① **POWER button:**  
Switches the VCR power ON/OFF.
- ② **◀◀ (REW) button:**  
Rewinds the tape and allows picture search.
- ③ **■ (STOP) button:**  
Stops the tape transport.
- ④ **⏏ (PAUSE/STILL) button:**  
Sets pause and still picture.
- ⑤ **▶▶ (FF) button:**  
Rapidly advances the tape and allows picture search.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

### LD/DVD player operation

- ① **POWER button:**  
Switches the LD player's or DVD player's power ON/OFF.
- ② **◀◀ (SCAN/CHAPTER SEARCH) button:**  
Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter. Continue pressing to rewind.
- ③ **■ (STOP) button:**  
Playback is stopped when pressed once.  
With some LD/DVD players, pressing the button twice may open the disc tray.
- ④ **⏏ (PAUSE) button:**  
Video and audio are stopped and playback is paused.
- ⑤ **▶▶ (SCAN/CHAPTER SEARCH) button:**  
Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter. Continue pressing for fast forward.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

### CD player operation

- ① **POWER button:**  
Switches the CD player's power ON/OFF.
- ② **◀◀ (MANUAL/TRACK SEARCH) button:**  
Pressing quickly once takes you to the start of the track currently playing. Each time you press it, you move back to the start of the previous track. Continue pressing for reverse search.  
Pressing the ◀◀ button while pressing the ■ button takes you to the previous disc. (With a file-type CD player.)
- ③ **■ (STOP) button:**  
Stops playback.
- ④ **⏏ (PAUSE) button:**  
Pauses playback.
- ⑤ **▶▶ (MANUAL/TRACK SEARCH) button:**  
Pressing quickly once takes you to the start of the next track. Each time you press it, you move ahead to the start of the next track. Continue pressing for forward search.  
Pressing the ▶▶ button while pressing the ■ button takes you to the next disc. (With a file-type CD player.)
- ⑥ **▶ (PLAY) button:**  
Selects playback.

### TAPE 1 operation

- ① **POWER button:**  
Switches the cassette deck's power ON/OFF.
- ② **◀◀ (REW) button:**  
Rapidly advances the tape in the direction of the arrow.
- ③ **■ (STOP) button:**  
Stops the tape transport.
- ④ **⏏ (PAUSE/STILL) button:**  
Temporarily stops the tape transport. Press again to resume tape transport.
- ⑤ **▶▶ (FF) button:**  
Rapidly advances the tape in the direction of the arrow.
- ⑥ **▶ (PLAY) button:**  
Selects playback.

### SAT operation

Enables SAT or Pioneer projection TV operation.  
Refer to page 26 if you select Pioneer DVD.

- ① **POWER button:**  
Switches the TV (digital satellite system) tuner power ON/OFF.
- ② **▷ (ENTER) button:**  
Press to set the digital satellite system mode.
- ③ **(Δ, ▷, ▽, ◁) buttons:**  
These function as digital satellite system mode selection buttons.  
(Use to move the digital satellite system cursor.)  
When you select Pioneer projection TV, the Δ, ▽ buttons let you move the menu up and down.

### TUNER operation

- ② **ST — (Station Down) button:**  
Used for recalling memorized stations.
- ③ **FQ — (Frequency Down) button:**  
Shifts the frequency down.
- ④ **FQ + (Frequency Up) button:**  
Shifts the frequency up.
- ⑤ **ST + (Station Up) button:**  
Used for recalling memorized stations.
- ⑥ **Band button:**  
Switches the FM and AM bands in turn.

#### Auto Tuning:

Press FQ + (up) or — (down) button until the frequency starts to change, then release it. The tuner will automatically search for a broadcasting station and stops when one is found, and the TUNED indicator lights up. To search for another station, press again.

#### Manual Tuning:

Press FQ + (up) or — (down) button and release quickly. The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.

#### High Speed Manual Tuning:

If you keep the FQ (up/down) button depressed after the frequency has begun to change, the reception frequency changes continuously, and stops when the button is released.

#### NOTE:

*When AUTO TUNING is in use, reception may not be possible over long distances or when signals are weak. At these times MANUAL TUNING is recommended.*

## GUI

GUI (Graphic User Interface) lets you use the TV screen to operate the system.

- Press the GUI MODE button on this unit or the GUI button on the remote control, and operation indications for the currently selected function are displayed on the TV screen.
- To operate, use the  $\Delta$ ,  $\triangleright$ ,  $\nabla$ ,  $\triangleleft$  buttons on the remote control (they light up when the GUI mode is ON) or the MULTI-JOG on this unit to move the cursor (the hand shaped mark) displayed on the TV screen. When the cursor is on the button you want to operate, press the GUI ENTER button.

- When the operating instructions say "Press the button", this means move the cursor to the desired button and press the GUI ENTER button.

### NOTE:

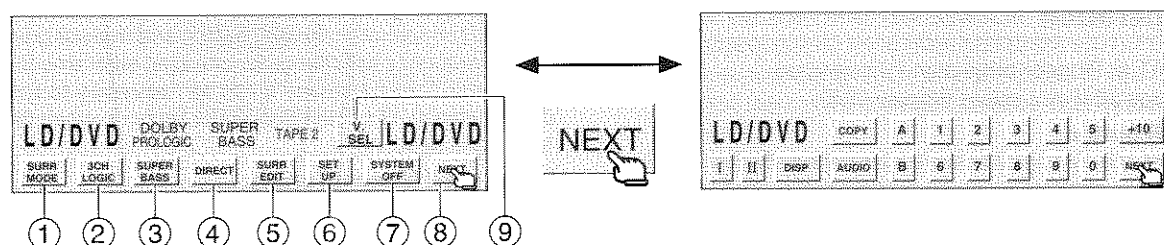
- If you do not perform any of the operations above within 10 ~ 30 seconds, the GUI display is canceled.
- <Multi-voltage model only>  
Set the rear panel PAL/NTSC switch to match your TV's color system. The screen will be unclear if the color system does not match.

## RECEIVER CONTROL BUTTONS

- The buttons in the following explanation are the receiver operation button indications common to all function displays. (The illustration shows LD/DVD operation indications.)

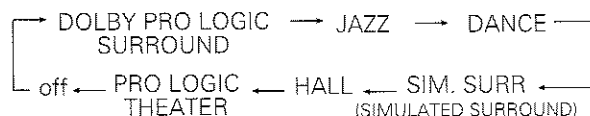
(Figure 1: Main Menu display)

(Figure 2: Sub Menu display)



### ① SURR MODE (Surround Mode):

Switches between the five DSP modes and the DOLBY PRO LOGIC mode as follows:



The selected mode is displayed on the right of the function indications.

### ② 3CH LOGIC:

Switches the DOLBY 3CH LOGIC ON/OFF.

When ON, "3CH LOGIC" is displayed on the right of the function indications.

### ③ SUPER BASS:

Switches the SUPER BASS ON/OFF.

When ON, "SUPER BASS" is displayed on the right of the function indications.

### ④ DIRECT:

Press this to listen to source sound without passing the audio signal through sound quality and balance adjusting circuitry. The surround mode, and rear and center speakers are automatically switched off.

### ⑤ SURR EDIT (Surround Edit):

Press to make adjustments such as level setting for the currently selected surround mode or DOLBY 3CH LOGIC. When you press this button, the display changes to SURROUND EDIT indications. (Refer to page 35)

### NOTE:

You cannot press this button when the surround mode or DOLBY 3CH LOGIC is OFF.

### ⑥ SET UP:

Press this button and the display changes to the SETUP MENU. (Refer to pages 36~39.)

### ⑦ SYSTEM OFF:

Switches power to this unit, the TV, and the currently selected function OFF.

### NOTE:

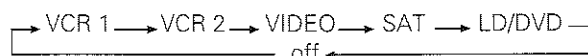
When you press the SYSTEM OFF button, power to components not made by Pioneer switches ON if power to these components was already switched OFF.

### ⑧ NEXT button:

Switches between Main Menu display (Figure 1) and Sub Menu display (Figure 2).

### ⑨ V.SEL (VIDEO SIGNAL SELECTOR):

This switches only the video signal in sequence, leaving the sound unchanged. (Refer to page 34.)



## Calling up the tuner display.

1. Press the **TUNER** button of the input selector.
2. Press the **GUI MODE** button on this unit or the **GUI** button on the remote control.

TUNER operation indications are displayed.

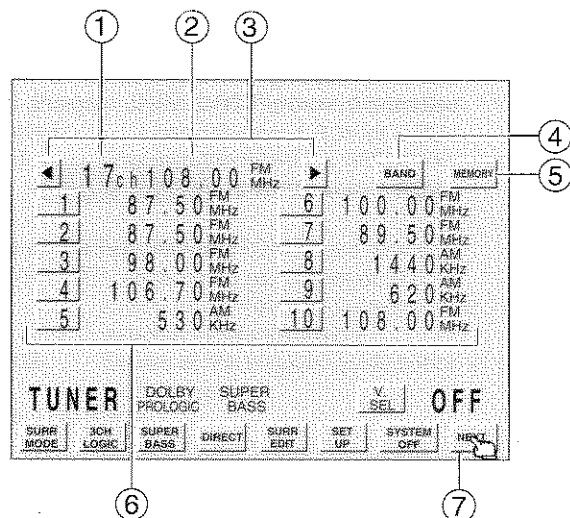


Illustration shows U.S. and Canadian models.

- ① **Channel indication:**  
Indicates the current channel.
- ② **Frequency indication:**  
Indicates the current frequency.
- ③ **◀, ▶ buttons:**  
Use to raise or lower the frequency.
- ④ **BAND button:**  
Switches between FM/AM. The band changes each time you press this button, and is displayed next to the frequency indication.
- ⑤ **MEMORY button:**  
Use to memorize stations.
- ⑥ **Channel list:**  
Frequencies memorized in each channel are displayed. Press a number button, and that channel's frequency is received.
- ⑦ **NEXT button:**  
Switches between channel lists. There are a total of thirty channels, from 1 to 30, displayed 10 at a time on three lists which change each time you press the button as follows.

→ 1~10 → 11~20 → 21~30 →

## MANUAL/AUTO TUNING

1. Move the cursor to **BAND**, and select **FM** or **AM**.  
The band changes each time you press the **GUI ENTER** button.
2. Move the cursor to **▶** or **◀**, and press the **GUI ENTER** button to raise or lower the frequency as desired.

### ● One Step Tuning:

Press the **GUI ENTER** button and release quickly. The frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station.

### ● Auto Tuning:

Press the **GUI ENTER** button until the frequency starts to change (about 1 sec.), then release it. The tuner automatically searches for a broadcasting station and stops when one is found.

#### NOTE:

When the signal level is too weak for reception, the unit cannot perform Auto tuning. In this case, change to Manual tuning.

### ● High Speed Manual Tuning:

Keep the **GUI ENTER** button pressed. The frequency changes continuously, and stops when the button is released.

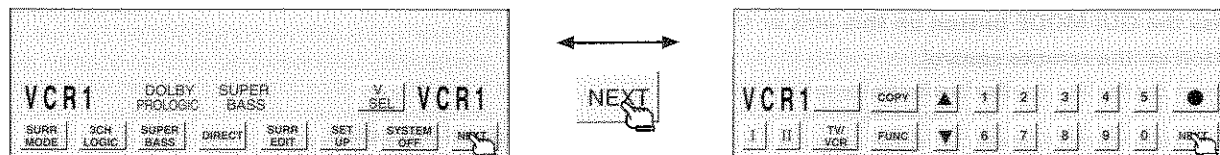
## PRESET TUNING

You can preset up to 30 FM/AM stations for easy recall.

### FREQUENCY PRESETTING

1. Press **NEXT** to switch to the desired channel list.  
(1~10, 11~20, 21~30)
2. Tune in the desired station.  
Refer to "MANUAL/AUTO TUNING" procedure.  
In addition to station frequencies, the **MPX MODE** can also be preset (FM only).  
Switch to the **MPX MODE** using the **MPX MODE** button on this unit. (No indications are displayed.)
3. Press the **MEMORY** button.  
Channel indications "--" flash.
4. Select the channel you want to memorize from the channel list, and press the **GUI ENTER** button.  
This memorizes the frequency.  
To memorize other stations, repeat steps 2 through 4 or 1 through 4.

## <VCR 1/VCR 2>



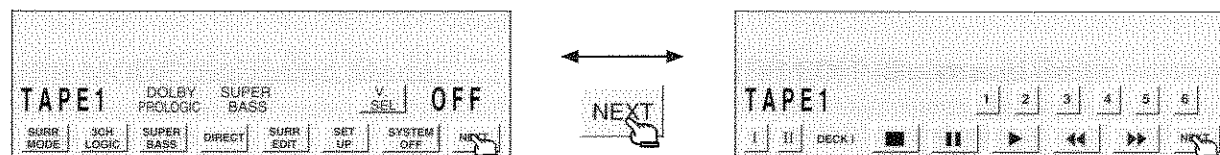
- 0~9:** Use to call up channels.
- ▲ :** Shifts channels in ascending order.
- ▼ :** Shifts channels in descending order.
- TV/VCR:** This button can be used only for VCRs with a TV/VCR selector.  
Toggles the antenna output between TV and VCR.
- FUNC:** Switches the input selector functions.
- :** Selects the recording mode.

**COPY:** Use when copying from VCR 1 to VCR 2. (When selected from the VCR 2 menu, copying from VCR 2 to VCR 1 is performed.)

VCR 1 → VCR 2 **START** **STOP**

**I / II :** Use with the REMOTE SETUP learning function (P. 37), to memorize commands.

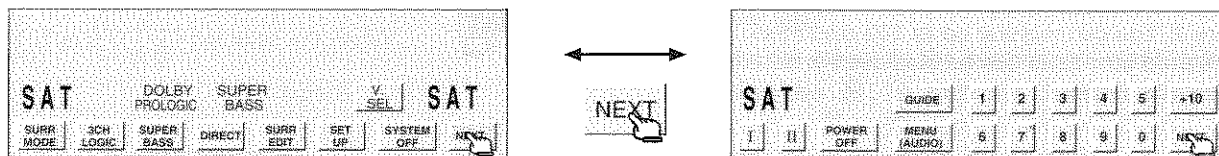
## <TAPE 1>



### [DECK I]

- :** Stops the tape transport.
- II :** Temporarily stops the tape transport.
- ▶ :** Selects playback.
- ▶▶ :** Rapidly advances the tape in the direction of the arrow.
- ▶▶▶ :** Rapidly advances the tape in the direction of the arrow.
- 1~6:** Selects the cassette No. (1 to 6) for a multi-cassette changer.
- I / II :** Use with the REMOTE SETUP learning function (P. 37), to memorize commands.

<SAT>



**SAT, Pioneer DVD, and Pioneer projection TV can be selected.**

**I / II :** Use with the REMOTE SETUP learning function (P. 37), to memorize commands.

● **When SAT is selected:**

**POWER OFF:**

Press to turn off the power of the TV (digital satellite system) tuner.

**GUIDE:** Serves as the program guide button of the digital satellite system.

**MENU (AUDIO):**

Serves as the button for calling the menu.

**0~9:** Serves as the digit buttons of the TV (digital satellite system) tuner.

● **When Pioneer DVD is selected:**

**POWER OFF:**

Press to turn off the power of the DVD player.

**MENU (AUDIO):**

Serves as the button for switching the audio of the DVD.

**0~9, +10:** Serves as the digit buttons of the DVD.

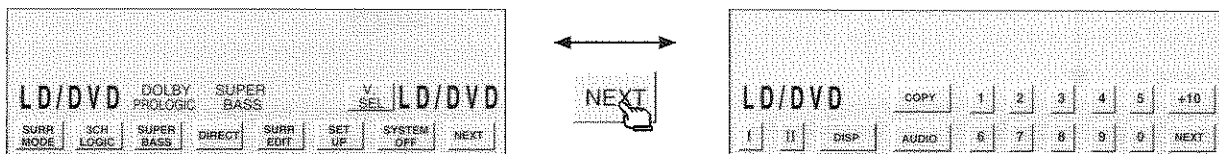
● **When Pioneer projection TV is selected:**

**POWER OFF:**

Press to turn off the power of the Projection TV.

**0~9:** Serves as the digit buttons.

<LD/DVD>



**0~9:** For direct selection of a chapter.

**+10:** Use to input such information as chapter numbers higher than 10.

**A:** Selects playback of an LD/DVD disc to side A.

**B:** Selects playback of an LD/DVD disc to side B.

**AUDIO:** Switches the sound between LD player and DVD player.

**DISP:** Switches the TV screen display of chapter, frame/time number ON/OFF.

**COPY:**

Use when copying from LD or DVD to VCR.

**I / II :**

Use with the REMOTE SETUP learning function (P. 37), to memorize commands.

## <CD>

- When the CD TYPE you select from the SETUP MENU (P. 38) is "FILE", display indications are as shown in Figure 2. You can register up to 100 disc titles.
- Registered disc titles can be displayed in numerical or alphabetical order.

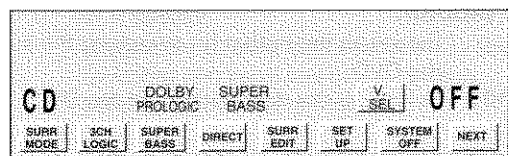


..... When the selected CD TYPE is "SINGLE"

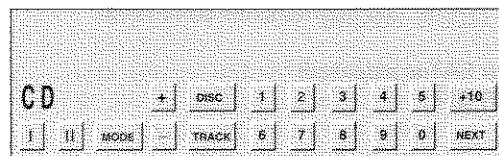


..... When the selected CD TYPE is "FILE"

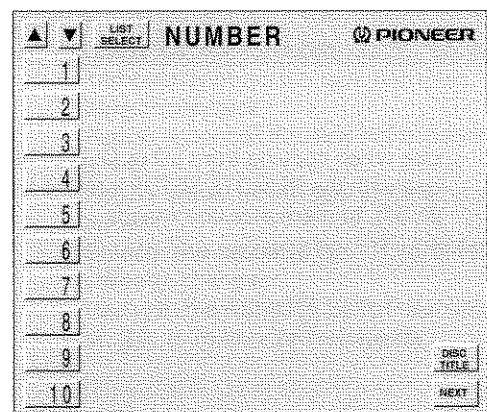
(Figure 1)



(Figure 3)



(Figure 2)



Refer to page 33.

### (Functions of the screen buttons shown in Figure 3.)

- 0~9:** For direct selection of a track or programming of tracks.
- +10:** You can also use this to select disc numbers. Use when selecting a track number higher than 10. For example, to select 21, press the +10 button twice and then the 1 button. You can also use this to select disc numbers. This button cannot be used with some CD players.
- DISC:** Before selecting a disc number button, select this button first.
- TRACK:** Before selecting a track number button, select this button first.
- MODE:** Use this button to switch between SINGLE and ALL modes when using a File-type CD player. To play only a single disc, select SINGLE. For search and continuous play of all discs, select ALL.
- +** : Use to select a disc number.
- : Use to select a disc of the File-type CD player.
- I / II :** Use with the REMOTE SETUP learning function (P. 37), to memorize commands.

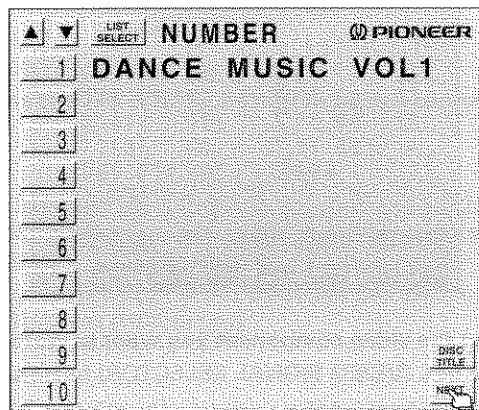
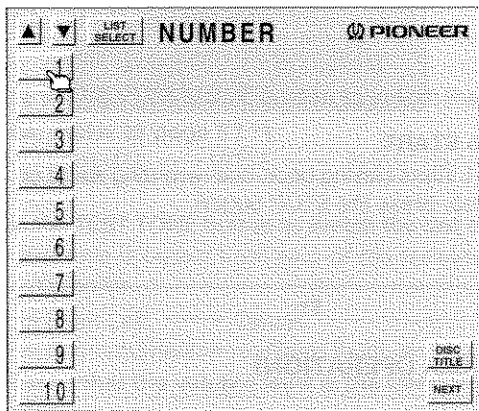
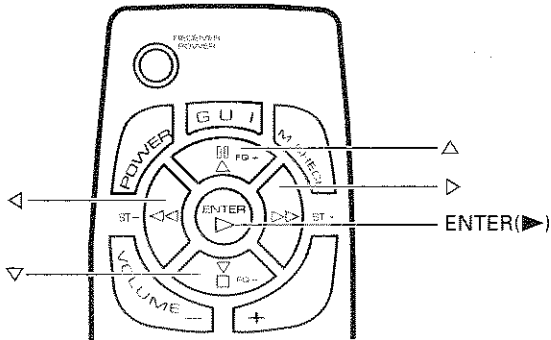
**To store the DISC TITLE into this unit**

Up to 16 characters can be input.

Letters: A ~ Z

Numbers: 1 ~ 9, 0

Symbols: ?, +, -, ', /, !, &, (space)



1. Press **NEXT** in the CD display to switch to the disc title display (Page 32, Figure 2).

2. Press **DISC TITLE**.

3. Move the cursor to the number you want to input. (Pressing the **▲**, **▼** buttons changes the page.)

Each time the **▲** or **▼** button is pressed, the disc number list page changes as follows by 10 pages.

→ 1-10 ↔ 11-20 ..... 81-90 ↔ 91-100 →

4. Press **ENTER (▶)**.

The selected disc number lights up at one line, and the first character is highlighted, indicating standby for input.

5. Select the first character using the **▲** or **▼** button of the remote control unit.

6. Move the digit using the **▶** button of the remote control unit.

• Correction can be made by moving back to the previous digit using the **◀** button.

7. Repeat steps 5 to 6, and select the other digit characters.

8. Press the **ENTER (▶)** button. The title of the selected disc number is registered.

9. Repeat steps 3 to 8 to input other titles as desired.

10. Press **DISC TITLE**.

These operations can also be performed using the MULTI-JOG, ENTER, and SELECT buttons on the front panel.

Disc numbers are indicated by the numbers 1~10 in the first display. Press **▼** to call up the displays for disc numbers 11~20, 21~30, and higher numbers in order.

(Pressing **▲** reverses the order in which displays are shown.)

When you have completed inputting, press **LIST SELECT**. Titles are listed in alphabetical order. Press again to return to display of titles listed in numerical order.

NUMBER ↔ TITLE

You can input the first initial of the artists' names before inputting titles. If you do this, when you select the title order, the list is in alphabetical order of the artists' first initials. This makes things easier when searching for disc by a particular artist.

**On a Pioneer File-Type CD player, pressing a number button starts play of a disc.**

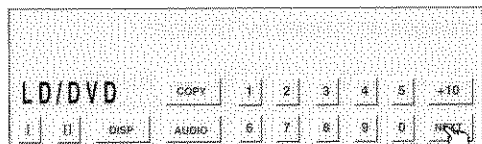
## COPY OPERATION (GUI OPERATION)

**ISC** Intelligent  
System Control

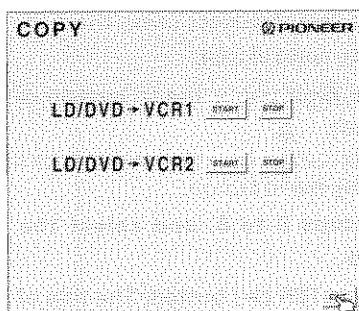
- LD/DVD → VCR 1/2 and VCR 1 ↔ VCR 2 copying is possible.
- For VCR, select a line input (external input).

### LD/DVD → VCR 1 (VCR 2) Copying

1. Select LD/DVD with the FUNC button.  
LD/DVD function indications are displayed.
2. Press the NEXT button.



3. Press the COPY button.  
COPY menu is displayed.

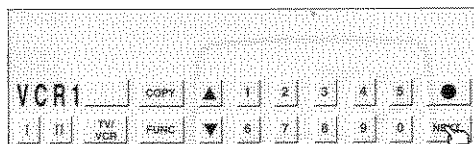


4. Select the component you are using to copy (VCR 1 or VCR 2), and press START.  
The LD player or DVD player starts playing, and recording begins on the VCR. To stop, press the STOP button.

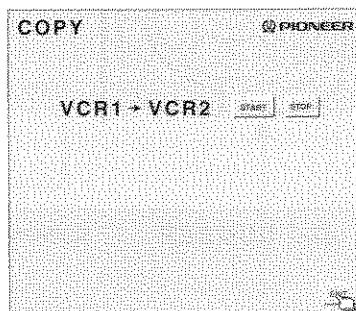
### VCR 1 → VCR 2 or VCR 2 → VCR 1 Copying

(Example: VCR 1 → VCR 2)

1. Select VCR 1 with the FUNC button.  
VCR 1 function indications are displayed.
2. Press the NEXT button.



3. Press the COPY button.  
COPY menu is displayed.

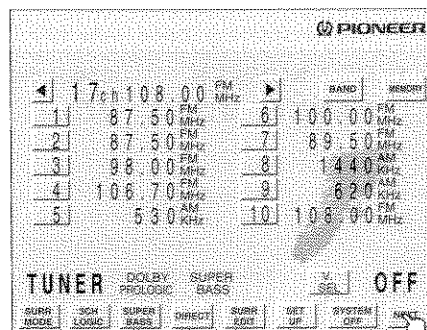


4. Press START.  
VCR 1 starts playing back, and recording starts on VCR 2. To stop, press the STOP button.

## USING THE VIDEO SIGNAL SELECTOR (GUI OPERATION)

This function can be used to allow you to listen to the playback sound while changing the video image only, thus allowing you to playback and record video images different from the playback sound source.

1. Select the component you want to listen to with the FUNC (function) button.  
When listening to (or recording) AM or FM broadcasts, select a preset station. If the desired station has not been preset, tune in the station.
2. Press the GUI button to switch the GUI mode ON.  
GUI indications for the selected function are displayed.



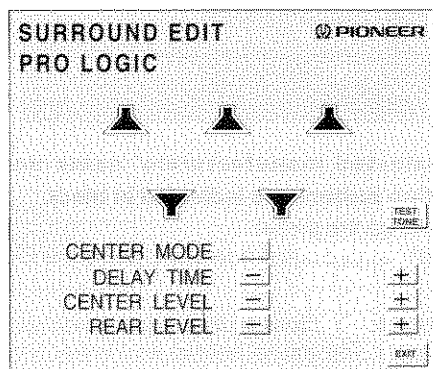
3. Select the video component you want to watch with the V.SEL (VIDEO SIGNAL SELECTOR) button.
4. Start playback of the component selected with the FUNC button, and the component selected with the V.SEL button.

### CAUTION:

If you must operate the V.SEL button during recording, do so after setting the recording VCR to the pause mode. If the button is operated when the tape is traveling during recording, the recorded image and sound may be disrupted at the point at which the button is operated.

- If you press the SURR EDIT button on a function operation display, display switches to "SURROUND EDIT" indications for the currently selected surround mode. (Press the EXIT button to return to the original function operation display.)
- On the SURROUND EDIT display, you can adjust levels, switch to the center mode, and adjust delay time.

(When using DOLBY PRO LOGIC)



## LEVEL ADJUSTMENT

Example: When using DOLBY PRO LOGIC

1. Press the **CENTER MODE** button to select the Center Mode. (Refer to page 6) \*1

→ NORMAL → WIDE → PHANTOM →

2. Press the **TEST TONE** button to switch the test tone on. The test tone is output from each of the speakers in the following order.

→ Front Left → Center\*2 →  
Surround(Rear) ← Front Right ←

3. Adjust so that the volume level is the same from each of the speakers.

- Use the CENTER LEVEL +, - buttons to adjust the center speaker volume level. \*3
- Use the REAR LEVEL +, - buttons to adjust the rear speakers volume level. \*4

4. Press the **TEST TONE** button to switch the test tone OFF.

### NOTE:

\*1 You can select the CENTER MODE when using DOLBY PRO LOGIC SURROUND, PRO LOGIC THEATER and DOLBY 3CH LOGIC.

When using DOLBY 3CH LOGIC, you can switch between NORMAL and WIDE settings.

\*2 When the CENTER MODE button is in the PHANTOM position, no test tone is output from the center speaker.

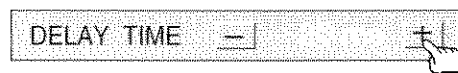
\*3 Only when using DOLBY PRO LOGIC SURROUND and DOLBY 3CH LOGIC, can you adjust the CENTER LEVEL.

\*4 When using DOLBY 3CH LOGIC, the REAR speakers are not used.

## SETTING THE DELAY TIME

When using DOLBY PRO LOGIC SURROUND or SIMULATED SURROUND, you can set the delay time between 16 ms and 30 ms (2 ms step).

The standard setting is 20 ms, but you can select any setting of your choice.

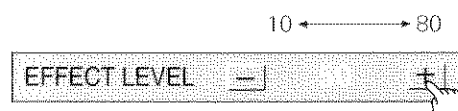


## SETTING THE EFFECT LEVEL

(DSP MODE, JAZZ, DANCE, and HALL only)

You can only adjust the effect level of DSP MODE, JAZZ, DANCE, and HALL.

Each time you press the +, - buttons, the effect level changes as follows:



- Adjust the volume of the reflected sound. The greater the number, the greater the reflected surround effects.

# REMOTE SETUP (GUI OPERATION)

**ISC** Intelligent System Control

Even if your audio/video components are not made by Pioneer, performing the following procedures will enable you to operate them with this unit's remote control and GUI. (If you do not perform the following procedures, you will not be able to operate other manufacturers' components with this unit's remote control.)

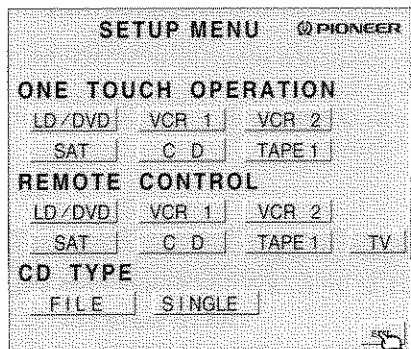
When operating, be sure to connect an IR repeater. (P.12)

## Calling up and setting up presets

This unit is already preset with the remote control signals of other manufacturers' components. The following procedures show you how to call up and setup these presets.

1. Press the SET UP button that is indicated on all the function operation displays.

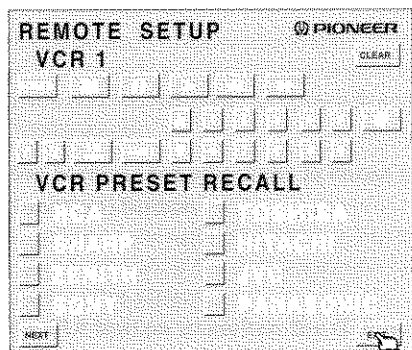
Display switches to the SETUP MENU.



2. Select one of the seven REMOTE CONTROL functions.

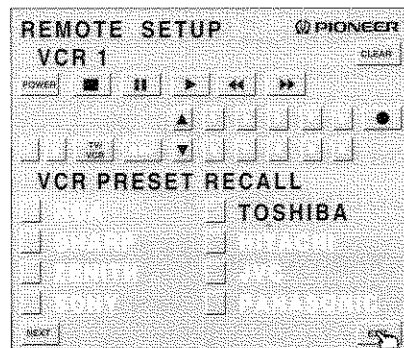
The display switches to REMOTE SETUP indications. The name of preset manufacturers are indicated in white in the lower half of the PRESET RECALL screen.

(Example: VCR)



3. Select the manufacturer of your component.

- For VCRs, CD players, SAT, LD/DVD and TVs, press the NEXT button and another manufacturers' list is displayed.
- For TVs, there's also a display of CATV terminal manufacturers you can select from. (However, if you select a CATV manufacturer, a TV cannot be operated. In this case, learn the TV operation signals. P.37)
- During SAT operation, pressing the NEXT button calls up the Pioneer DVD player and Projection TV display.



4. The selected manufacturers' name and preset operation buttons are indicated in black.

This calls up the preset.

To finish remote setup operation, press the EXIT button.

### NOTE:

- To return preset buttons to their original settings, press the CLEAR button. The original settings are Pioneer remote control commands.
- Even if a button is preset, it may not operate. If this happens, learn the command using the learning function. (P.37)

Other brand of remote control signal preset in this unit:

| LD/DVD   |  |             |         |
|----------|--|-------------|---------|
|          |  | LD          | DVD     |
| 1st page |  | SONY 1      | PIONEER |
|          |  | SONY 2      |         |
|          |  | KENWOOD     |         |
|          |  | PHILIPS     |         |
|          |  | PANASONIC 1 |         |
|          |  | PANASONIC 2 |         |
|          |  | 2nd page    |         |

| VCR 1, 2 |  |           |            |
|----------|--|-----------|------------|
| 1st page |  | RCA       | MITSUBISHI |
|          |  | SHARP     | SANYO      |
|          |  | ZENITH    | GOLD STAR  |
|          |  | SONY      | FISHER     |
|          |  | TOSHIBA   | MAGNAVOX 1 |
|          |  | HITACHI   | MAGNAVOX 2 |
|          |  | JVC       |            |
|          |  | PANASONIC |            |
|          |  | 2nd page  |            |

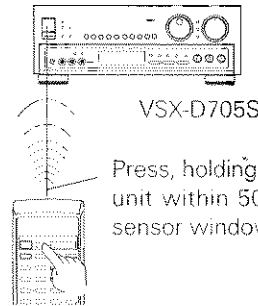
| SAT      |  |          |                       |
|----------|--|----------|-----------------------|
|          |  | SAT      | DVD & PJTV            |
| 1st page |  | RCA      | PIONEER DVD           |
|          |  | SONY     | PIONEER PROJECTION TV |
|          |  |          |                       |
|          |  | 2nd page |                       |

| CD       |          |          |           |
|----------|----------|----------|-----------|
| 1st page | SONY     | 2nd page | ONKYO 1   |
|          | RCA      |          | ONKYO 2   |
|          | JVC      |          | KENWOOD 1 |
|          | TECHNICS |          | KENWOOD 2 |
|          | TEAC 1   |          | SANYO     |
|          | TEAC 2   |          | YAMAHA    |
|          | DENON    |          |           |
|          | PHILIPS  |          |           |

| TAPE 1   |          |
|----------|----------|
| 1st page | SONY     |
|          | JVC      |
|          | TECHNICS |
|          | KENWOOD  |
|          | TEAC     |

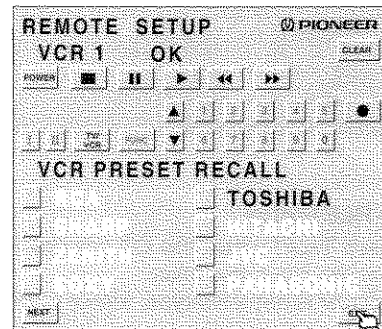
| TV       |           |          |            |          |           |
|----------|-----------|----------|------------|----------|-----------|
| TV       |           |          | CATV       |          |           |
| 1st page | RCA       | 2nd page | MITSUBISHI | 3rd page | PIONEER   |
|          | SHARP     |          | GOLD STAR  |          | JERROLD 1 |
|          | ZENITH    |          | GE         |          | JERROLD 2 |
|          | SONY      |          | MAGNAVOX   |          | JERROLD 3 |
|          | TOSHIBA   |          |            |          | JERROLD 4 |
|          | HITACHI   |          |            |          | SA 1      |
|          | PHILIPS   |          |            |          | SA 2      |
|          | PANASONIC |          |            |          | ZENITH    |

3. Point your component's remote control at this unit's remote sensor window and press the selected button.



Press, holding the remote control unit within 50 cm of this unit's sensor window.

- If "OK" is displayed, learning has been completed. If you want to use another button for learning, repeat steps 2 and 3.



- If "NG" is displayed, repeat steps 2 and 3.
- When you have completed learning, press the EXIT button.

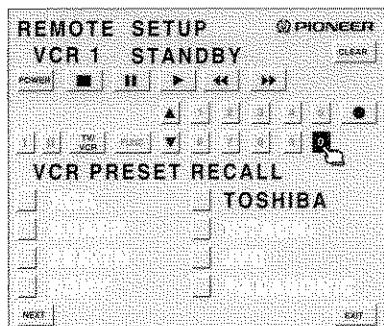
## Learning

Pioneer remote control commands are in the non-preset gray buttons, but you can use them to learn remote control signals from your component's remote control.

1. Perform the first three steps of "Calling up and setting up presets".
2. Select the gray button you want to use for learning and press.

The "STANDBY" indication flashes. (If you remain in STANDBY for about 1 minute, it is canceled.)

(Example: Using the 0 button for learning)



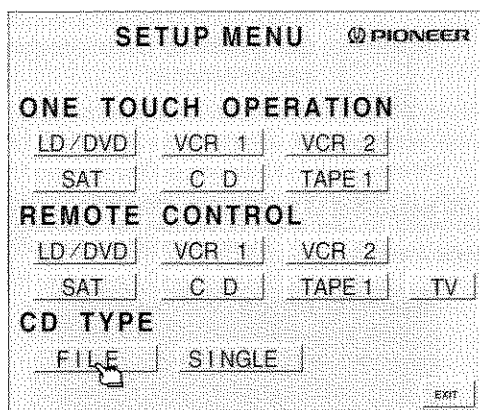
## NOTE:

- To return the buttons you used for learning to their original settings, press the CLEAR button. This returns them to the original Pioneer remote control commands.
- There are no signals in buttons I and II, so you can use them for learning.
- Even when "OK" is indicated during learning, operation may still not be possible. If this happens, repeat the learning procedures. With some manufacturers' components, learning may be difficult to perform. Learning may also not be possible if the remote control's batteries are run down. If this is the case, load the remote control with new batteries and repeat the learning procedures.
- Even black preset buttons can be used for learning other commands.
- Learning a command may not be possible if many commands requiring a large amount of memory have already been learned resulting in insufficient memory remaining.

To register CD disc titles for a Pioneer file-type CD player, you must select the CD player type from the SETUP MENU.

1. Press the **SET UP** button that is indicated on all the function operation displays.

Display switches the SETUP MENU.



2. Press the **FILE** button.

If you select "FILE" when the CD operation display is shown, you can input disc titles.

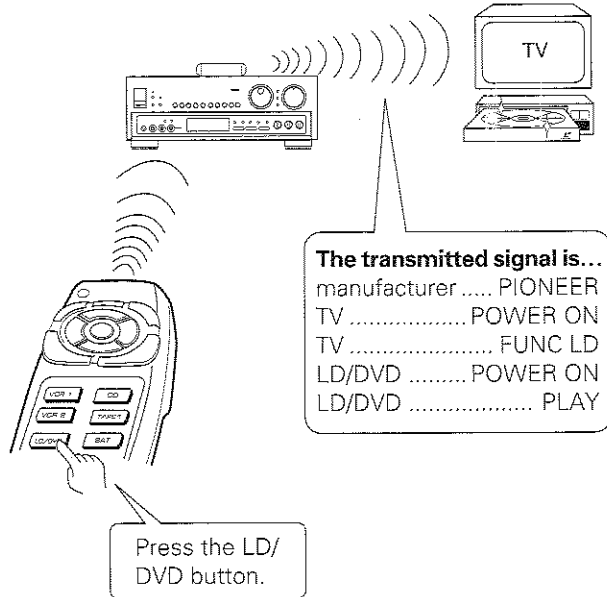
If the CD player is not a file-type, select "SINGLE".

# ONE TOUCH OPERATION SETUP (GUI OPERATION)

**ISC** Intelligent System Control

- Sets the operation signal that is transmitted when a remote control ONE TOUCH OPERATION button is pressed.
- Initially, Pioneer remote control signals are transmitted. (Figure 1)

(Figure 1: Initial settings for LD/DVD)

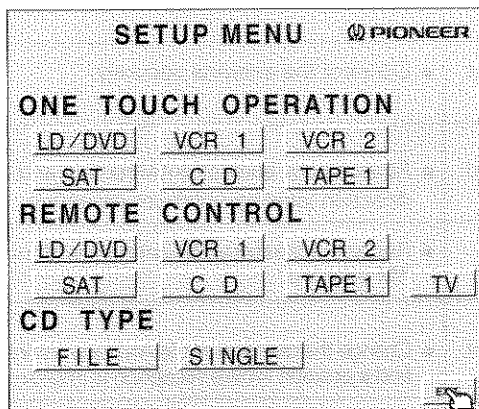


To operate other manufacturers' components, first complete REMOTE SETUP procedures (P.36)

Example: When you want to change LD/DVD ONE TOUCH OPERATION commands.

## 1. Press the SET UP button.

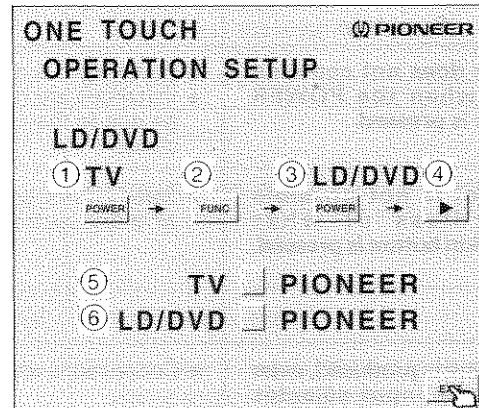
The SETUP MENU is displayed.



## 2. Select LD from the six ONE TOUCH OPERATION SETUP function buttons.

ONE TOUCH OPERATION SETUP indications are displayed.

(Example: LD/DVD)



①~④ :

You can select which operation buttons will transmit operation signals and those which will not.

When the operation button's character is black, a signal will be transmitted. If it is gray, it will not be transmitted. The button's character color changes each time it is pressed.

- With other manufacturers' components, if power is ON when the POWER signal is transmitted, power is switched OFF.

When the TV "FUNC" signal is transmitted, the TV function may not become the function connected to the receiver. For this reason, when other manufacturers' presets are called up with REMOTE SETUP, commands are not automatically transmitted.

⑤, ⑥ :

TV and LD/DVD manufacturers settings are displayed.

- If you use REMOTE SETUP (P.36) to call up another manufacturers' presets, that manufacturers' name is displayed.
- When you use the REMOTE SETUP learning function (P.37), the "PIONEER" indication becomes gray. Remote control signals set with REMOTE SETUP are transmitted. To return to the original Pioneer remote control commands, press the ON/OFF button (on the left of "PIONEER") to turn the "PIONEER" indication black. (If they are not the original Pioneer remote control commands, even Pioneer components may switch OFF when the POWER commands are transmitted, or there may be some other incorrect operation.)

## 3. After completing the settings, press the EXIT button.

### NOTE:

With original Pioneer remote control commands, the TV function always becomes "LD", so connect the receiver's VIDEO OUT (TO MONITOR TV) terminal to the TV's LD video input terminal.

# TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

| Symptom                                                                         | Cause                                                                                                                                                                               | Remedy                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power does not come on even when the POWER switch is pressed.</b>            | <ul style="list-style-type: none"> <li>Power cord is disconnected.</li> <li>Instances are rare, but the problem may be due to the operation of the protector circuit.</li> </ul>    | <ul style="list-style-type: none"> <li>Connect cord securely.</li> <li>Unplug the power cord of the unit from the AC wall outlet, then plug it in again.</li> </ul>                                                                                                                           |
| <b>Control is not possible regardless of what operation button is pressed.</b>  | <ul style="list-style-type: none"> <li>Static electricity affects the unit when the air is dry, such as in winter.</li> </ul>                                                       | <ul style="list-style-type: none"> <li>Unplug the power cord of the unit from the AC wall outlet, then plug it in again.</li> <li>Press the RESET button.</li> <li>If static electricity is pronounced, it is recommended that you operate the unit using the remote control unit.</li> </ul> |
| <b>No sound is produced, even when the input selector button is selected.</b>   | <ul style="list-style-type: none"> <li>Connections are incorrect.</li> <li>The MUTING button is pressed.</li> <li>VOLUME is turned down.</li> </ul>                                 | <ul style="list-style-type: none"> <li>Consult pages 7-12 and perform connections correctly.</li> <li>Press the MUTING button to cancel the MUTING effect.</li> <li>Raise volume.</li> </ul>                                                                                                  |
|                                                                                 | <ul style="list-style-type: none"> <li>Speaker connecting wires are disconnected from speaker terminals.</li> </ul>                                                                 | <ul style="list-style-type: none"> <li>Connect wires to terminals securely.</li> </ul>                                                                                                                                                                                                        |
|                                                                                 | <ul style="list-style-type: none"> <li>One or both of the input cords are disconnected.</li> </ul>                                                                                  | <ul style="list-style-type: none"> <li>Connect input cords securely.</li> </ul>                                                                                                                                                                                                               |
|                                                                                 | <ul style="list-style-type: none"> <li>TAPE 2 MONITOR button is in the ON position.</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>Press the button again to the OFF position.</li> </ul>                                                                                                                                                                                                 |
|                                                                                 | <ul style="list-style-type: none"> <li>The SPEAKERS button is OFF.</li> </ul>                                                                                                       | <ul style="list-style-type: none"> <li>Switch the SPEAKERS button ON.</li> </ul>                                                                                                                                                                                                              |
| <b>No picture is produced, even when the input selector button is selected.</b> | <ul style="list-style-type: none"> <li>Connections are incorrect.</li> <li>The selected input selector button is not correct.</li> </ul>                                            | <ul style="list-style-type: none"> <li>Consult pages 7-12 and perform connections correctly.</li> <li>Press the correct button.</li> </ul>                                                                                                                                                    |
| <b>High noise level.</b>                                                        | <ul style="list-style-type: none"> <li>Station has not been tuned in to the correct frequency.</li> </ul>                                                                           | <ul style="list-style-type: none"> <li>Tune the station in correctly.</li> </ul>                                                                                                                                                                                                              |
|                                                                                 | <ul style="list-style-type: none"> <li>Antenna has not been connected or has become disconnected.</li> </ul>                                                                        | <ul style="list-style-type: none"> <li>Connect the antenna securely.</li> </ul>                                                                                                                                                                                                               |
|                                                                                 | <b>FM reception</b> <ul style="list-style-type: none"> <li>Accessory FM antenna remains bundled up or it is not pointing in right direction.</li> </ul>                             | <ul style="list-style-type: none"> <li>Stretch both ends of antenna taut and locate direction yielding optimum reception.</li> </ul>                                                                                                                                                          |
|                                                                                 | <ul style="list-style-type: none"> <li>Weak broadcasting station signals.</li> </ul>                                                                                                | <ul style="list-style-type: none"> <li>Replace accessory FM antenna with outdoor FM antenna.</li> </ul>                                                                                                                                                                                       |
|                                                                                 | <b>AM reception</b> <ul style="list-style-type: none"> <li>AM loop antenna is not pointing in right direction.</li> </ul>                                                           | <ul style="list-style-type: none"> <li>Change the direction of the AM loop antenna and find a position where reception is improved.</li> </ul>                                                                                                                                                |
|                                                                                 | <ul style="list-style-type: none"> <li>Weak broadcasting station signals.</li> </ul>                                                                                                | <ul style="list-style-type: none"> <li>Erect an outdoor AM antenna or connect a ground wire.</li> </ul>                                                                                                                                                                                       |
|                                                                                 | <ul style="list-style-type: none"> <li>Noise is being picked up by this unit from other equipment (especially electrical appliances using motors or fluorescent lights).</li> </ul> | <ul style="list-style-type: none"> <li>Turn off the appliances generating noise or remove them from the vicinity of the stereo equipment.</li> <li>Separate the antenna from the unit by some distance.</li> </ul>                                                                            |

| Symptom                                                   | Cause                                                                                                                                                                                                                                                                                                                           | Remedy                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No auto stop.                                             | <ul style="list-style-type: none"> <li>Input signals are not strong enough.</li> </ul>                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>(FM) If the supplied simple antenna is being used, change to an outdoor antenna.</li> </ul>                                                                                                                                                                                                                       |
| TV source cannot be seen when the VCR's TV tuner is used. | <ul style="list-style-type: none"> <li>TV antenna is not connected to the VCR, or connections are faulty.</li> </ul>                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>Consult the VCR's operating instructions, and connect the antenna correctly.</li> </ul>                                                                                                                                                                                                                           |
|                                                           | <ul style="list-style-type: none"> <li>The VCR's input switch is set to line input.</li> </ul>                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>Set the VCR's input switch to built-in tuner.</li> </ul>                                                                                                                                                                                                                                                          |
| No rear sound is produced.                                | <ul style="list-style-type: none"> <li>The SURROUND MODE buttons are set incorrectly.</li> <li>The REAR LEVEL is turned down.</li> <li>Speaker connecting wires are disconnected from the REAR SPEAKERS terminals.</li> </ul>                                                                                                   | <ul style="list-style-type: none"> <li>Set correctly.</li> <li>Refer to page 35 and adjust the rear level.</li> <li>Connect wires to the terminals securely.</li> </ul>                                                                                                                                                                                  |
| Remote control does not work.                             | <ul style="list-style-type: none"> <li>Batteries are dead or missing in remote control unit.</li> <li>Poor angle or too great a distance from the remote sensor window.</li> <li>There is an obstacle between you and the remote sensor window.</li> <li>A fluorescent light is shining on the remote sensor window.</li> </ul> | <ul style="list-style-type: none"> <li>Insert new batteries.</li> <li>Use within 7 meters (23 feet) and within a 30 degree angle of the remote sensor window.</li> <li>Change your position or move the obstacle.</li> <li>Move the receiver so fluorescent light does not shine directly on the receiver's front panel remote sensor window.</li> </ul> |

*Abnormal functioning of this unit may be caused by static electricity or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.*

# SPECIFICATIONS

## Amplifier Section

**Continuous average power output of 165 watts\* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.05 %\*\* total harmonic distortion (front).**

[Multi-voltage model]

Continuous Power Output (DIN)

Front (1kHz, T.H.D. 1%, 8  $\Omega$ ) ..... 180 W+ 180 W

Continuous Power Output

Front ..... 150 W + 150 W (1kHz, 0.8%, 8  $\Omega$ )

Center ..... 150 W (1kHz, 0.8%, 8  $\Omega$ )

Rear ..... 150 W (1kHz, 0.8%, 8  $\Omega$ )

Dynamic Power (2  $\Omega$  /4  $\Omega$ ) ..... 450 W/330 W

Input (Sensitivity/Impedance)

PHONO MM ..... 2.8 mV/47 k $\Omega$

CD, TAPE 1, TAPE 2, LD/DVD,

VCR 1, VCR 2, VIDEO, SAT/TV ..... 200 mV/47 k $\Omega$

Frequency Response

PHONO MM ..... 20 Hz to 20,000 Hz  $\pm$  0.3 dB

CD, TAPE 1, TAPE 2, LD/DVD, VCR 1,

VCR 2, VIDEO, SAT/TV ..... 5 Hz to 100,000 Hz  $\pm$  0.3 dB

Output (Level/Impedance)

TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 k $\Omega$

VCR 1 OUT, VCR 2 OUT ..... 200 mV/2.2 k $\Omega$

Tone Control

BASS .....  $\pm$  8 dB (150 Hz)

TREBLE .....  $\pm$  8 dB (10 kHz)

SUPER BASS ..... +8 dB (80 Hz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM ..... 76 dB

CD, TAPE 1, TAPE 2, LD/DVD,

VCR 1, VCR 2, VIDEO, SAT/TV ..... 97 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]

PHONO MM ..... 77 dB

CD, TAPE 1, TAPE 2, LD/DVD,

VCR 1, VCR 2, VIDEO, SAT/TV ..... 80 dB

\* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

\*\* Measured by Audio Spectrum Analyzer.

## VIDEO Section

Input (Sensitivity/Impedance)

VCR 1, VCR 2, LD/DVD, VIDEO ..... 1 Vp-p/75  $\Omega$

Output (Level/Impedance)

VCR 1, VCR 2, MONITOR ..... 1 Vp-p/75  $\Omega$

Frequency Response

VCR 1, VCR 2,

LD/DVD, VIDEO  $\rightarrow$  MONITOR .... 5 Hz to 10 MHz  $\pm$  0.3 dB

Signal-to-Noise Ratio ..... 55 dB

Cross Talk ..... 55 dB

TV color system

U.S. and Canadian models ..... NTSC

Multi-voltage model ..... PAL/NTSC (switchable)

## FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz

Usable Sensitivity ..... Mono: 11.2 dBf, IHF (1.0  $\mu$ V/75  $\Omega$ )

50 dB Quieting Sensitivity ..... Mono: 16.8 dBf

Stereo: 38.6 dBf

Signal-to-Noise Ratio ..... Mono: 80 dB (at 65 dBf)

Stereo: 76 dB (at 85 dBf)

Distortion ..... Stereo: 0.3 % (1 kHz)

Alternate Channel Selectivity ..... 65 dB (400 kHz)

Stereo Separation ..... 45 dB (1 kHz)

Frequency Response ..... 30 Hz to 15 kHz  $\pm$  0.5 dB

Antenna Input ..... 300  $\Omega$  balanced

75  $\Omega$  unbalanced

## AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz (9 kHz step)

530 kHz to 1,600 kHz (10 kHz step)

Sensitivity (IHF, Loop antenna) ..... 300  $\mu$ V/m

Selectivity ..... 25 dB

Signal-to-Noise Ratio ..... 50 dB

Antenna ..... Loop antenna

## Miscellaneous

Power Requirements

U.S. and Canadian models ..... AC 120 V, 60 Hz

Multi-voltage model ... AC 110 V/120-127 V/220 V/240 V

(Switchable), 50/60 Hz

Power Consumption

U.S. and Canadian models ..... 375 W, 590 VA

Multi-voltage model ..... 1,070 W

In Standby Condition ..... 5 W

AC Outlets

U.S. and Canadian models

SWITCHED X 2 ..... TOTAL 100 W (0.8 A) MAX

UNSWITCHED X 1 ..... 100 W (0.8 A) MAX

Multi-voltage model

SWITCHED X 2 ..... TOTAL 100 W MAX

UNSWITCHED X 1 ..... 100 W MAX

Dimensions ..... 420 (W) X 162 (H) X 414 (D) mm

16-9/16 (W) X 6-3/8 (H) X 6-5/16 (D) in

Weight (without package)

U.S. and Canadian models ..... 12.7 kg (28 lb)

Multi-voltage model ..... 12.9 kg (28 lb 7 oz)

## Furnished Parts

FM T-type Antenna ..... 1

AM Loop Antenna ..... 1

Dry Cell Batteries (AA/R6P) ..... 2

Remote Control Unit ..... 1

Main-Repeater ..... 1

Mini-Repeater ..... 1

Operating Instructions ..... 1

## NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.



## Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

### To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

### Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

## We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

### Decibel

| Level | Example                                                           |
|-------|-------------------------------------------------------------------|
| 30    | Quiet library, soft whispers                                      |
| 40    | Living room, refrigerator, bedroom away from traffic              |
| 50    | Light traffic, normal conversation, quiet office                  |
| 60    | Air conditioner at 20 feet, sewing machine                        |
| 70    | Vacuum cleaner, hair dryer, noisy restaurant                      |
| 80    | Average city traffic, garbage disposals, alarm clock at two feet. |

### THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

|     |                                                     |
|-----|-----------------------------------------------------|
| 90  | Subway, motorcycle, truck traffic, lawn mower       |
| 100 | Garbage truck, chain saw, pneumatic drill           |
| 120 | Rock band concert in front of speakers, thunderclap |
| 140 | Gunshot blast, jet plane                            |
| 180 | Rocket launching pad                                |

Information courtesy of the Deafness Research Foundation.



### MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

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